BULLETIN
of the
AMERICAN ASSOCIATION *of* PETROLEUM GEOLOGISTS

INDEX
VOLUMES I–X
1917–1926

By
DAISY WINIFRED HEATH

Incorporating Index Volumes I–VI prepared by
J. R. PEMBERTON

ASSOCIATION HEADQUARTERS
OFFICE OF THE BUSINESS MANAGER
Box 1852, TULSA, OKLAHOMA

Copyright 1927 by
THE AMERICAN ASSOCIATION OF
PETROLEUM GEOLOGISTS

INTRODUCTION

In the preparation of this Index, the aim has been to adopt plans in harmony with those used in Mr. J. R. Pemberton's Index of Volumes I–VI. The geological and geographical references have been confined to places, periods, formations, and structures which have been prominent in connection with oil geology. All items based on titles of major articles are indicated by the use of italics. Special effort has been made to include, under the name of each state or country, a rather full list of the data of practical interest to the petroleum geologist which have appeared in the ten volumes covered. For convenience, the volumes have been indicated by Roman numerals throughout, and the page numbers by Arabic.

Acknowledgments are due to Mr. J. R. Pemberton for his pioneer work in the Index of Volumes I–VI, which has furnished the working plan for this Index and which is incorporated with it; to Mr. J. P. D. Hull, for valuable suggestions; and to the compiler's sister, Miss Lilian M. Heath, for advice and co-operation throughout the whole course of the work. It is sincerely hoped that the Index will prove of practical value to members of the Association.

DAISY WINIFRED HEATH

CHICAGO, ILLINOIS
May 31, 1927

INDEX

Vol. I, 1917; Vol. II, 1918; Vol. III, 1919; Vol. IV, 1920; Vol. V, 1921; Vol. VI, 1922; Vol. VII, 1923; Vol. VIII, 1924; Vol. IX, 1925; Vol. X, 1926.

A

Abilene conglomerate, II, 75
Abo sandstone, New Mexico, X, 833
Abo-Yeso formation, New Mexico, V, 164, 166, 606; VI, 224
Absaroka thrust fault, X, 106
Absorption and permeability of oil and gas sands, apparatus for determining, IX, 442
Acetylene tetrachloride, use in determining porosity, X, 934
Adams Branch limestone, III, 142
Adams, Homer Hastings, *geological structure of Eastland and Stephens counties, Texas, IV, 159*
Africa, V, 397
Ages, major and minor folding, V, 49
Aguilares oil pool, V, 625
Airplanes, bibliography, footnotes, IX, 948–57
Airplanes for geologic explorations in inaccessible regions, IX, 947
Alabama, V, 242, 490, 550
  gas seepages, IV, 267
  Hatchetigbee anticline, VI, 195
  oil reserves, VI, 44
  review of publications on, VI, 385, 387
Alamo oil pool, Mexico, V, 506
Alaska, VI, 293
  review of publications on, VI, 262
  unconformity in, VI, 295
Alazan shale, Mexico, V, 101; VI, 97
Albany formation, Texas, I, 94; III, 81, 95, 134, 147, 169, 170
Alberta, Bow Island gas field, VII, 152
  Czar district, VII, 154
  Devonian, VII, 148
  Etzikom Coulee, VII, 155
  Lower Cretaceous, VII, 148
  Medicine Hat, VII, 156
  Mesozoic, VII, 157
  Milk River, VII, 156
  Monitor district, VII, 155
  oil and gas possibilities, VII, 147, 156
  Paleozoic, VII, 157
  stratigraphy, VII, 149
  structure, VII, 149
  Upper Cretaceous, VII, 148
  Viking gas field, VII, 153
Albertson, M., explanation of the large initial production of some wells of the Haynesville Field, Louisiana VII, 295
Albian formation, European Cretaceous, V, 6
Algae, agency in reducing sulphates, X, 1273
Algae believed to be Archean, review, VII, 302
Alibates dolomite, IV, 271
Alibi for geologists, IX, 1295
Alice dome, VI, 148
Alignment chart, the application of the, to petroleum engineering, IX, 803
Allan, J. A., sections in Alberta, VII, 151
Allegheny age, V, 38, 368
Allen County, Kentucky, oil fields, V, 169
Allen oil pool, III, 166
Altamont limestone, Kansas, V, 297; VI, 464
  Oklahoma, II, 122
Alta Vista oil field, III, 299, 307
Alum Bluff formation, VI, 398
Alva oil field, Oklahoma, II, 57
Alvey, Glenn H., *decline curve prediction from the first day and from the first thirty days, IV, 209*
Amarillo district, Texas, oil and gas in, VII, 237
  porphyry at, VII, 434
  stratigraphy, structure, development; IV, 269; VI, 88
Amatlan oil field, Mexico, V, 506; VI, 111

Ambrose, Arthur Warren, review of John Suman's "petroleum production methods," V, 682
review of Robert William Phelps and Francis Wilbur Lake's "petroleum engineering," IX, 1299
the petroleum production engineer and his relation to future production, IV, 137
American Association of Petroleum Geologists, advertising manager, 1924, VIII, 396
announcement of Denver meeting, VI, 169
announcement of joint meeting with the Rocky Mountain Section of the American Institute of Mining and Metallurgical Engineers and American Mining Congress, X, 640
applications for membership, VI, 167, 272, 490, 559; VII, 199, 317, 458, 711; VIII, 104, 261, 386, 688, 840; IX, 185, 407, 704, 822, 921, 1124, 1300; X, 354, 534, 815, 909, 1001, 1182, 1313
certificate of incorporation, VIII, 391
claims against Mexico, IX, 183
code of ethics, VIII, 383
committee work, VI, 489
constitution of, I, 7; II, 6; III, 6; V, 434; VIII, 393
distribution of membership, VIII, 390
editorial on plans for Bulletin, V, 96; on co-operation by members with editor, V, 622
foreign members, VIII, 690
functions of editor of Bulletin, VII, 704
historical sketch, I, 6
library, X, 1314
meeting of the Executive Committee, Tulsa, Oklahoma, May, 1925, IX, 1026
meeting of the Pacific Section, November, 1925, IX, 1219
membership list, I, 10; II, 9; III, 9; IV, 325; V, 694; VI, 572; VIII, 106; IX, 375, 1217; X, 316
methods of electing officers, VI, 167, 271
officers, I, 5; II, 5; III, 5; IV, 4; V, 114; VI, 66; VII, 316; VIII, 379; IX, 700; X, 549
organization, VII, 623
organization of California members, VIII, 532
Pacific Coast Meeting, September, 1924, VIII, 838
payment of dues, IX, 185
photographs of members, collection of, IX, 187
plans for Houston meeting, March, 1924, VIII, 99
proceedings of second annual meeting, I, 11; of third annual meeting, II, 11; of fourth annual meeting, III, 16; of fifth annual meeting, IV, 317; of sixth annual meeting, V, 345; of seventh annual meeting, Oklahoma City, March, 1922, VI, 162, 266; of eighth annual meeting, Shreveport, 1923, VII, 202, 307; of ninth annual meeting, Houston, 1924, VIII, 362, 367; of tenth annual meeting, Wichita, 1925, IX, 678; of eleventh annual meeting, Dallas, 1926, X, 538; of Denver meeting, September, 1926, X, 1178
publication schedule of the Bulletin, IX, 827
regional directors, 1923, VII, 714; 1924, VIII, 390; 1925, IX, 827; 1926–7, X, 911
report of the advertising manager for 1924, IX, 700
report of business committee for 1925, X, 547
report of the editor for 1922, VII, 313; for 1923, VIII, 379; for 1924, IX, 699; for 1925, X, 546
report of the president for 1922, VII, 308; 1923, VII, 457; for 1923, VIII, 372; for 1924, IX, 690; for 1925, X, 540
report of the secretary for 1922, VII, 310; for 1923, VIII, 375; for 1924, IX, 695; for 1925, X, 541
report of the treasurer, IV, 323; for 1920, V, 350; for 1921, VI, 270; for 1922, VII, 311; for 1923, VIII, 376; for 1925, X, 542
represented at Centenary of the Franklin Institute, VIII, 397
rules for publication of articles in Bulletin, V, 500
suggestions to Associate Editors, VIII, 99
tenth annual business meeting, Wichita, Kansas, 1925, IX, 678, 690
the California meeting, 1923, VII, 705
American Chemical Society, lubrication symposium reprints, X, 1003
American Institute of Mining and Metallurgical Engineers, meeting of Petroleum Division, October, 1926, X, 911
American Petroleum Institute, VIII, 101

American salt-dome problems, in the light of the Roumanian and German salt domes, IX, 1227
American salt-dome problems, outline, IX, 1232
suggestions from German salt domes, IX, 1261
American salt domes, in a region of geologic tranquillity, IX, 1265
nature of, IX, 1228
occurrence, IX, 1230
structure, IX, 548
American theories of salt-dome origin, IX, 835
Americans, status of, in petroleum developments of Europe and Asia, IX, 1089
Amphitheater dolomite, II, 74
Amortization costs, V, 362
Amo tape spur, Peru, V, 594
Amsden limestone, Montana, V, 257, 259
Wyoming, VI, 226
Anacocho limestone, Texas, V, 25
Anadarko Basin, Oklahoma, VIII, 323
Analysis of Goose Creek crude oil, IX, 295
Analysis of sample of Big Hill cap rock, IX, 718
Anderson, F. M., *original source of oil in Colombia, X, 382*
Anderson, Henry W., claims against Mexico, IX, 183
Anderson, Robert, *observations on the occurrence and origin of petroleum in Argentina and Bolivia, X, 853*
Anderson, Robert, and Arnold, Ralph, discussion of origin of petroleum of California, X, 698–710
Angola oil field, III, 360; V, 663
Anhydrite, V, 218, 221
Anhydrite cap, origin, IX, 55, 64, 66
Anhydrite in Big Hill dome, Texas, IX, 718
Anhydrite in cap rock, IX, 43, 1229
Anhydrite replaced by gypsum in salt dome cap rock, IX, 46
Anhydrite rock, characteristic features, IX, 50
Annona chalk, Arkansas, VI, 352, 474, 478
Louisiana, II, 62; IV, 128; V, 305, 309, 632; VI, 181, 194
Anse La Butte oil field, I, 51; V, 218
Anthracolitic limestone, Texas, III, 129–31; V, 18
Anticlinal theory, V, 413, 460
Anticlines, Kansas, VIII, 445
Apishapa shale, IV, 77
Appalachian oil fields, review of publication on deep oil, VI, 385
unconformities in, VII, 60
Apparatus for determining the absorption and permeability of oil and gas sands, IX, 442
Applin, Esther Richards, determination of fossils at Saratoga field, Texas, IX, 274
Applin, E. R., and Cushman, J. A., *Texas Jackson Foraminifera, X, 154*
Applin, Esther Richards, Ellisor, Alva E., and Kniker, Hedwig T., *subsurface stratigraphy of the coastal plain of Texas and Louisiana, IX, 79*
Applin, Paul L., *the Stratton Ridge salt dome, Brazoria County, Texas, IX, 1*
Appraisal work, VIII, 658
Aptian, European Cretaceous, V, 6, 7
Aragonite, V, 264
Arbuckle limestone, Oklahoma, V, 34, 471; VI, 6, 421
Arbuckle Mountains, V, 14, 32, 122, 175, 330, 427, 546, 566, 581, 628; VI, 6, 161
extension of a portion of the Pontotoc series around the western end of, IX, 983
orogeny, V, 44
Archean, Texas, V, 374
Archer County, Texas, Canyon group, X, 479
Dalmar sand, X, 466
geology and oil fields of, X, 457
Lower Freeman-Hampton sand, X, 465
Marble Falls limestone, X, 481
oil, source of, X, 467
oil recovery, X, 470
production, X, 464
Smithwick shale, X, 481
Strawn group, X, 479
structure, X, 471
Texhoma-Gose sand, X, 465
Upper Wilmot sand, X, 466
Archer County oil field, Texas, drilling methods, X, 475
map, X, 472
production and development, X, 474
stratigraphy, X, 461
Archer County oil pools, Texas, X, 476
Ardmore Basin, V, 37
syncline, VI, 15

Areal geology of a part of southwestern Oklahoma, VIII, 312
Argentina, V, 604
Cretaceous, X, 857
Devonian fossils, X, 856
dolomitic limestone, X, 855
Jurassic, X, 857
review of publication on, VI, 383
review of report on Mendoza-Neuguen oil fields, VI, 260
Rhaetic formation, X, 856
Tertiary, X, 855
Argentina and Bolivia, observations on the occurrence and origin of petroleum in, X, 853
Argentine, Devonian, X, 854
occurrence of oil at Commodoro Rivadavia, by Anselmo Windhausen, review by Charles Lawrence Baker, IX, 181
Arikaree beds, Wyoming, V, 62
Arizona, V, 21, 22
Coconino sandstone, X, 828
Defiance uplift of, X, 827
fossils, Supai formation, X, 825
Hermit shale, X, 828
Kaibab limestone, X, 830
oil possibilities, VI, 47
oil reserves, VI, 44
Permian fossils, X, 825
review of publication on Holbrook area, VI, 262
Supai formation, X, 824
unconformities in, X, 822, 823, 831, 834, 851, 855
Arizona and New Mexico, the Permian of, X, 819
bibliography, footnotes, X, 819–51
Arkadelphia clay, Arkansas, VI, 54, 352
Louisiana, II, 62; IV, 128; V, 304, 631; VI, 181, 195, 250; X, 232
Arkansas, Comanchean, oil in, V, 20
deep sands, VI, 477
El Dorado oil field, geology, VII, 354
stratigraphy, VII, 354
stratigraphy of, as determined by drill cuttings, review, VII, 198
structure, VII, 354
fauna of the Brownstown beds, IX, 1158
folding effects in, VII, 180
fossils of Brownstown beds, IX, 1158
fossils of Pecan Gap chalk, IX, 1155
guide notes on the Midway in southwestern, IX, 167
history of geological knowledge, I, 26
oil-bearing formations of southwestern, X, 1310
oil reserves, VI, 44
Pecan Gap, Foraminifera of chalk, IX, 1155
pre-Cambrian rhyolite discovered in well in northwestern, IX, 1115
relation of quality of oil to structure at El Dorado, VII, 350
relation of Upper Cretaceous to Eocene structures in Louisiana and, VII, 379
Smackover field, producing sands in the, IX, 1116
Smackover, structure, VII, 676
stratigraphy, VI, 193, 350
structure, VI, 356
subsurface conditions in the heavy oil-producing area of Smackover, VII, 672
unconformity in, X, 11
White Cliffs, age and correlation of the chalk at, with notes on the subsurface correlations of northeast Texas, IX, 1152
wildcat exploration, VI, 350
Arkansas and Louisiana, stratigraphy of producing sands, bibliography, footnotes, VII, 363–67
Arkansas and Texas, chalk of, bibliography, footnotes, IX, 1152–64
geologic map, IX, opp. 1158
Arkose, V, 167, 208; VI, 161
Arnold, Ralph, *problems of oil-lease valuation, III, 389*
two decades of petroleum geology (1903–22), VII, 603
Arnold, Ralph, and Anderson, Robert, discussion of origin of petroleum of California, X, 698–710
Arnold, Ralph, and Loel, Walter, *new oil fields of the Los Angeles basin, California, VI, 303*
Ashley, George H., review of his "the outlook for oil and gas in Pennsylvania," V, 100
the outlook for oil and gas in Pennsylvania, V, 357
Ashton sand, VI, 313
Asia and Europe, status of Americans in petroleum developments of, IX, 1089
Aspen formation, Wyoming, V, 198, 206
Asphalt, California, VIII, 570
Carboniferous of Arkansas, VI, 196
Carboniferous of Oklahoma, VI, 20, 196
humic acid origin of, V, 75
Trinidad, IX, 1008
Asphaltic limestone, V, 25

Asphaltic sandstone, V, 559, 571, 599
Asse type of salt structures, IX, 1250
Atoka formation, Oklahoma, III, 268; V, 34, 123, 562; VI, 13
Texas, III, 76, 149
Augusta oil pool, IV, 90, 255; V, 138, 141, 146, 422, 576, 580
Aurin, Fritz Love, *pre-Pennsylvanian oil and gas horizons in Kay County, Oklahoma, IV, 173*
Aurin, Fritz Love, and Clark, Glenn Cecil, *the Tonkawa field, Oklahoma, VIII, 269*
Aurin, Fritz Love, Clark, Glenn Cecil, and Trager, Earl Adam, *notes on the sub-surface pre-Pennsylvanian stratigraphy of the northern Mid-Continent oil fields, V, 117*, 324
Aurin, F. L., Officer, H. G., and Clark, Glenn C., *core drilling for structure in the north Mid-Continent area, X, 513*
Aurin, F. L., Officer, H. G., and Gould, Charles N., *the subdivision of the Enid formation, X, 786*
Austin chalk, X, 44
Arkansas, VI, 352, 478
Louisiana, IV, 128; VI, 181
Lytton Springs field, Texas, X, 958
structure contour map of top of, VII, 27
Texas, III, 300, 301, 305; V, 7, 382, 420; X, 49, 50, 61, 769
Austin fauna, Texas, X, 31
Australia, exploration for oil in, VIII, 244
oil prospects of the Desert Basin of Western, X, 1118
oil prospects of the Northwest Basin of Western, X, 1136
review of publication on oil in Kimberley district, VI, 386
Australian oil shale, X, 868
Avant limestone, II, 121
Avant oil pool, III, 410
Avery Island, Louisiana, IX, 761
geology, IX, 765
paleontology, IX, 772
physiography, IX, 763
salt at, IX, 768
salt production, IX, 773
sandstone inclusion in salt in mine on, VIII, 674

B

Back pressure on oil wells, experiments on, VII, 37
Bacteria, sulphate-reducing, in oil-field waters, X, 1286
Bacterial reduction of sulphates, X, 1274
Baicoi field, Roumania, VI, 526; IX, 153
Baicoi salt dome, IX, 1241
Baker, Charles Lawrence, review of Anselmo Windhausen's "occurrence of oil at Commodoro Rivadavia, Argentine, Patagonia," IX, 181
the Cretaceous of west Texas and its oil possibilities, V, 5
Baku oil fields, III, 293
review of publication on, VI, 390
Balcones and Mexia faulting, mechanics of the, X, 1261
Balcones and Mexia fault zones, Texas, bibliography, X, 1268
Balcones escarpment, III, 124, 305; V, 25; VI, 59
Balcones zone, Cretaceous, Texas, X, 1261
Bald Hill oil pool, III, 273, 410; V, 285
Baldwin Hills, California, Geology, X, 508
Pliocene and Pleistocene history, X, 502
stratigraphy, X, 505
structure, X, 511
topography, X, 504
Ball, Max Waite, for the encouragement and guidance of associate editors, VIII, 99
gas near Fort Collins, Colorado, VIII, 79
geophysics at Colorado School of Mines, X, 1305
plans for Houston meeting, VIII, 99
presidential report, 1923, VII, 457
president's report for 1923, VIII, 372
relative ages of major and minor folding and oil accumulation in Wyoming, V, 49
representation in the American Petroleum Institute, VIII, 101
waters from the Green River shale, IX, 171
why is an editor? VII, 704
Bamberg balances, X, 1201
bibliography, X, 1208
Bandera shale, V, 293, 509; VI, 464
Bannock thrust fault, X, 106
Barbers Hill oil field, Texas, I, 47; V, 333; IX, 958
bibliography, IX, 973
cap rock, IX, 964

development, IX, 958, 961
geology, IX, 963
occurrence of sulphur waters, IX, 36
oil analyses, IX, 969
oil deposits, IX, 968
origin of the dome, IX, 967
physiography, IX, 960
production curves, IX, 970
stratigraphy, IX, 965
structure map, IX, 966
topographic map, IX, 963
well map, IX, 968

Barite in Big Hill dome, Texas, IX, 719

Barite pisolites from the Batson and Saratoga oil fields, IX, 1294

Barker coal bed, VI, 144

Barnes, R. M., and Collom, R. E., *California oil production and reserves, VIII, 212*

Barnett shale, VI, 150

Barnsdall oil pool, VI, 467

Barometric leveling, X, 1305

Bartlesville sand, Missouri, II, 118
Oklahoma, II, 118; III, 259, 266, 276; IV, 180; V, 126, 325, 402, 486; VI, 321; VIII, 764

Barton, Donald C., *American salt-dome problems in the light of the Roumanian and German salt domes, IX, 1227*
discussion of theories of origin of German salt deposits, IX, 439
geophysical methods in the Gulf Coastal Plain, IX, 669
methods of distinguishing fused cores, VII, 193
Pine Prairie salt dome, IX, 738
review of his "the West Columbia salt dome and oil fields," V, 102
review of H. B. Milner's "paraffin dirt, its nature, mode of occurrence, and significance as an indication of petroleum," IX, 1118
salt domes of south Texas, IX, 536
the wigglestick, VII, 427; X, 312
theory of origin of salt domes, IX, 859
translation of Hans Stille's *"the upthrust of the salt masses of Germany," IX, 417*
West Columbia oil field, Texas, V, 212, 325

Barton, Donald C., and Goodrich, R. H., *Jennings oil field, Acadia Parish, Louisiana, X, 72*

Barton, Donald C., and Mason, S. L., barite pisolites from the Batson and Saratoga oil fields, IX, 1294

Barton, Donald C., and Paxson, Roland B., *Spindletop salt dome and oil field, Jefferson County, Texas, IX, 594*

Bartram, John G., *occurrence of black oil in Wyoming, X, 443*

Bartram, John G., and Roark, Louis, *the Healdton field, Oklahoma, V, 469*

Bass, N. W., geologic structure of the Dakota sandstone in western Kansas, IX, 1019

Bastin, Edson S., *the problem of the natural reduction of sulphates, X, 1270*

Bates, Mowry, *the oil and gas fields of northern Louisiana, II, 61*

Batson field, Texas, I, 46; V, 243, 333; *IX, 1277*
physiography, IX, 1279
production of, IX, 1281

Batson and Saratoga oil fields, barite pisolites from, IX, 1294

Bauer, A. D., Cook, M. B., and Dean, E. W., properties of typical crude oils from the producing fields of Kansas, VI, 370

Bauer, C. Max, *oil and gas fields of the Texas Panhandle, X, 733*
quartzite pebbles at the base of the Lance formation in Montana, IX, 344

Bauer, C. Max, and Robinson, Ernest Guy, *comparative stratigraphy in Montana, VII, 159*

Baxter Basin gas field, VI, 515

Bayou Bouillon dome, Louisiana, IX, 1283
geology, IX, 1289
oil and gas in, IX, 1289
physiography, IX, 1285
wells on, IX, 1286

Bayou Bouillon oil field, I, 45

Beal, Carl Hugh, *essential factors in the valuation of oil properties, III, 367*

Bearpaw shale, IV, 250; V, 258, 268; VI, 146

Bear River shale, V, 196

Beaumont clay, III, 313; V, 221

Beaverburk limestone, VI, 88

Beaver sand, Kentucky, IV, 306; VI, 28

Beckstrom, R. C., and Van Tuyl, F. M., *the effect of pressure on the migration and accumulation of petroleum, X, 917*

Beckwith formation, V, 195, 206

Beede, Joshua William, *notes on the structure and oil showings in the red beds of Coke County, Texas, III, 118*
Beggs oil field, III, 273; IV, 279; V, 291
Bejucal limestone, Cuba, II, 142
Belchic, George, and Breitung, C. A., *gas production from the Spring Hill-Sarepta gas field, Webster and Bossier parishes, Louisiana, VII, 555*
Belgian Congo, V, 661, 666
Belgium, V, 27
Bell, H. W., *subsurface conditions in the heavy oil-producing area of Smackover, Arkansas, VII, 672*
Bell, H. W., and Cattell, R. A., review of their "the Monroe gas field, Louisiana," VI, 155
Bell Ridge oil field, V, 459
Belle Isle dome, Louisiana, IX, 783
  explorations, IX, 789
  geology, IX, 785
  map, IX, 785
  oil, IX, 792
  paleontology, IX, 790
  physiography, IX, 784
  salt, IX, 786
  structure, IX, 790
Bellevue oil field, Louisiana, VI, 184, 247, 250, 365; *VII, 645*
  geology, VII, 647
  structure, VII, 650
Belly River sandstone, IV, 250
Belmont oil pool, VI, 468
Belowesza beds, Europe, VI, 526
Belt, Ben C., *Chapeño Salt Dome, Tamaulipas, Mexico, IX, 134*
  stratigraphy of the Tampico District of Mexico, IX, 136
Bend Arch, III, 37, 44–71, 152, 185; IV, 288; VI, 493
Bend formation, III, 34, 47, *70,* 81, 92, 130, 134, 139, 147, *151,* 163, 173, 176, *217,* 237, 290, 296, *334;* IV, 83, 161; V, 38, 99, 376, 504, 545, 556, 571; VI, 12, 150, 335, 493
  age, III, 418
  fauna of, III, 225, 231
  water problems, III, 151
Bend group, Texas, X, 461
Bennett, Holly Reed, and Stephenson, Eugene Austin, *decline and production of the Ranger field, IV, 221*
Bennington formation, II, 80
Benson sand, II, 131
Benthe dome, Germany, IX, 1252, 1254, 1260, 1262
Benton, L. B., the recent discovery in Archer County, Texas, V, 418
Benton formation, II, 81; III, 357, 359; IV, 97, 250; V, 10; VI, 72, 551
Bentonite, V, 383, 651
  in the Upper Cretaceous of Louisiana, VIII, 342
Berea sand, IV, 28, 30, 307; V, 358
Berger, Walter Robert, *extent and interpretation of the Hogshooter gas field, III, 212*
  relation between the structure and production in the Sallyards field, Kansas, V, 276
Berkey, Charles P., notice of thirty-ninth annual meeting, Geological Society of America, 1926, X, 453
Berwyn anticline, VI, 16
Berwyn conglomerate in Oklahoma, IX, 987
Best, J. Boyd, some probable relations of structure to production in Kansas, VII, 75
Bethany gas field, IV, 132; V, 298, 309, 343; VI, 180, 190, 195
Bethel sandstone, Kentucky, VI, 27
Beverley Hills oil field, VI, 303
Bevier, George M., *Barbers Hill oil field, Chambers County, Texas, IX, 958*
  the Damon Mound oil field, Texas, IX, 505
Bexar County, Texas, oil field, III, 299
Beyerinck, W. M., discovery of sulphate-reducing bacteria, X, 1274
Bibliography, airplanes, footnotes, IX, 948–57
  Balcones and Mexia fault zones, Texas, X, 1268
  Bamberg balances, X, 1208
  Barbers Hill oil field, Texas, IX, 973
  Big Hill dome, Texas, IX, 737
  black shale formation, footnotes, VIII, 195–201
  calcium chloride waters from oil fields, IX, 1087
  California oil field practice, footnotes, VII, 125–28
  California oil production, footnotes, VIII, 219–35
  California oil, source of, footnotes, X, 709–20
  chalk of Arkansas and Texas, footnotes, IX, 1152–64

core drilling methods, footnotes, VII, 250–53
Cretaceous in Montana, footnotes, IX, 887–902
Damon Mound, Texas, IX, 534
East Coast district, New Zealand, X, 1258
Five Islands, Louisiana, IX, 795
Foraminifera, VII, 529
relation to origin of California petroleum, footnotes, X, 697–701
foreign petroleum resources, VII, 593, 698; VIII, 251, 352, 678, 834; IX, 368, 672, 815, 911
gas, Texas Panhandle, footnotes, X, 733–40
geology, Grand and San Juan counties, Utah, footnotes, VII, 385–95
geology, Los Angeles Basin, California, footnotes, X, 753–64
geology of Oklahoma, footnotes, VIII, 312–21
geology of southern California, footnotes, VII, 411–20
geology of Trinidad, footnotes, IX, 1001
German salt domes, IX, 1267
Green River formation, footnotes, IX, 247–58
Henryetta district, Oklahoma, footnotes, VII, 50–56
Hockley dome, Texas, IX, 1060
hydraulic theory of oil migration, VII, 213–24
interior salt domes of Louisiana, X, 290
interior salt domes of Texas, footnotes, X, 3–58
Jennings oil field, Louisiana, X, 92
Kreyenhagen shale, California, footnotes, IX, 990–98
Luling field, Texas, IX, 653
magnetic field balances, X, 1109
maps of German salt domes, IX, 1268
micro-fossils, footnotes, VIII, 540–49
migration of oil and water, footnotes, VIII, 697–712
Miocene paleogeography of California, X, 136
natural gas as a factor in oil migration, footnotes, VII, 14–20
oil geology, 1903–22, footnotes, VII, 605–22
oil in South Dakota, footnotes, VII, 507–14
oil in Texas Panhandle, footnotes, X, 733–40
oil sands, footnotes, VIII, 718–72
oil-well spacing, footnotes, IX, 195
origin of North American salt domes, footnotes, IX, 833–73
Permian of Oklahoma, footnotes, VIII, 322–38
petroleum and allied substances, for 1919–20, review, VII, 302
Pine Prairie dome, Louisiana, IX, 755
regional alteration of coals, footnotes, X, 941
relation of quality of oil to structure, footnotes, VII, 351–53
relation of Reynosa escarpment, Texas, to oil and gas, footnote, VII, 532
Roumanian oil fields, IX, 156
Roumanian salt domes, IX, 1198, 1266
south Texas salt domes, IX, 589
Spindletop dome, Texas, IX, 612
stratigraphy in southeast Kansas, footnotes, VIII, 446–51
stratigraphy of producing sands in Arkansas and Louisiana, footnotes, VII, 363–67
structural features of central Montana, footnotes, VII, 2–11
Sulphur dome, IX, 495
torsion balances, X, 1208
Transylvanian salt domes, IX, 1267
upthrust of salt masses of Germany, IX, 438
water analyses, footnotes, IX, 929–44
Woodbine sand of Texas, footnotes, X, 613–24
Wyoming oil-field waters, footnotes, IX, 235–46

Big Creek dome, Texas, VI, 253

Big Dirty coal bed, VI, 144

Big Hill dome, Texas, I, 47; IX, 590, 593, 711
bibliography, IX, 737
cap rock, IX, 592, 716
fossils, IX, 722
geology, IX, 591, 714; X, 368
origin, IX, 724
physiography, IX, 713
topographic map, IX, 715

Big Hill, typical Gulf Coastal salt dome, IX, 714

Bighorn sandstone, IV, 250

Big Injun sand, III, 156; IV, 28, 308

Big Lake oil field, Texas, Comanchean, X, 368
fossils, X, 370
oölitic dolomite, X, 375
Permian limestones and dolomites, X, 374
Permian red beds, X, 371
production, X, 366
source of oil, X, 377
structure, X, 377

subsurface geology, X, 365
Triassic, X, 370
well logs, X, 379
Big Lime, Oklahoma, V, 130, 400
West Virginia, IV, 30
Big Muddy oil field, IV, 37; V, 51, 200; VI, 515
Billings oil field, II, 55
Bingen formation, Arkansas, VI, 353
Louisiana, V, 305; VI, 181
Bingen group, Louisiana, X, 228, 248
Biochemical reductions of sulphates, X, 1272
Birk, Ralph A., Sayre field, Beckham County, Oklahoma, VIII, 347
the extension of a portion of the Pontotoc series around the western end of the Arbuckle Mountains, IX, 983
Bistineau dome, Louisiana, X, 252
cap rock, X, 255
geology, X, 253
structure, X, 255
topography, X, 253
wells on, X, 253
Bituminous material, origin, X, 1016
Bituminous shale, Devonian, X, 872
Blackburn, Chester O., and Van Tuyl, Francis M., *effect of rock flowage on the kerogen of oil shale, IX, 158*
relation of oil shale to petroleum, IX, 1127
Black Hills region, oil possibilities of, X, 800
oil possibilities of, discussion, X, 1177
sand conditions, X, 805
Black Lake gas field, Louisiana, II, 69
Black lime, Texas, X, 462
Black oil development, Wyoming, X, 446
Black oil in Wyoming, occurrence of, X, 443
Black shale formation, bibliography, footnotes, VIII, 195–201
"Black Shale" formation in and about Chesapeake Bay, VIII, 195
Blackwelder, Eliot, *origin of the central Kansas oil domes, IV, 89*
Blackwell oil field, IV, 178; V, 118, 138, 140, 325
Blaine formation, Kansas, II, 74
Oklahoma, II, 114
Texas, I, 103
Blairemore sandstone, IV, 250
Blankenship oil field, Kansas, V, 276, 422, 424
Bleaching of red beds, significance of, X, 311
Bliss quartzite, IV, 104
Block diagrams and other graphic methods used in geology and geography, review, IX, 918
Bloesch, Edward, Fort Scott–Wetumka correlation, X, 810
north-south correlation of the Pennsylvanian in Oklahoma, I, 134
observations on post-Permian deposits in north-central Oklahoma, I, 136
oil mining, X, 405
petroleum investigations in Switzerland, IV, 87
remarks on sub-surface contouring, VI, 317
review of Hans Höfer-Hermhalt's "das Erdöl und seine Verwandten," VII, 584
unconformities in Oklahoma and their importance in petroleum geology, III, 253
value of oil geology in the Mid-Continent field, II, 124
Blood Creek syncline, VI, 149
Blossom sand, Arkansas, VI, 54, 350, 363, 474, 477, 479, 556; X, 50
Louisiana, I, 153; II, 63; IV, 127; V, 309, 632; VI, 142, 181, 196, 247, 251; X, 262, 270
Blowout Mountain sandstone, I, 95, 98, 103; II, 78
Blue Hills shale, II, 81; VI, 72
Bluejacket sandstone, V, 548
Blue Ridge, analyses of oil from, IX, 314
Blue Ridge dome, Texas, IX, 304
cross-sections of salt core, IX, 308
geology, IX, 306
oil and gas, IX, 311
stratigraphy, IX, 309
Blue Ridge oil field, Texas, I, 46
production curves, IX, 312
wells, IX, 314
Boggy formation, III, 262, 264, 265, 269; V, 34, 124, 283, 549; VI, 13, 161
Bois d'Arc limestone, V, 34
Bokchito formation, II, 80
Bolivia, Devonian, X, 854
Devonian fossils, X, 856
review of publication on, VI, 384
Bolivia and Argentina, observations on the occurrence and origin of petroleum in, X, 853
Bolsa sand, VI, 313

Booch sand, III, 273; V, 126, 290, 404; VI, 320; VII, 57
Boone chert, III, 212, 271, 273; IV, 174; V, 121, 151, 344, 404; VI, 321, 375
Bore hole, survey of, X, 775
Bore holes, causes of deflection, X, 780
Borneo, V, 412
Bossler, Robert B., oil fields rejuvenated, review by K. C. Heald, VII, 304
Bostick, J. Wallace, analysis of Zapatah County, Texas, oil, V, 626
review of H. W. Bell and R. A. Cattell's "the Monroe gas field, Louisiana," VI, 155
Boston Barnett No. 1 well, VIII, 525
Boston Mountains, V, 561
Boston oil pool, V, 120, 130, 135
Bosworth beds, V, 525
Bosworth, T. O., review of his "geology of the Tertiary and Quaternary periods in the northwest part of Peru," VII, 443
Bottom deposits of Lake Ontario, by E. M. Kindle, review by W. H. Twenhofel, IX, 1121
Bow Island gas field, Alberta, VII, 152
Bowman, W. F., *South Dayton salt dome, Liberty County, Texas, IX, 655*
Boynton oil field, V, 343
Boynton sand, V, 290
Brachiopods, VII, 185
Bradford oil field, V, 360
Bradford sand, V, 366; VI, 46
Bradley, W. H., *origin of the Green River formation and its oil shale, IX, 247*
Bramlette, M. N., bentonite in the Upper Cretaceous of Louisiana, VIII, 342
volcanic rocks in the Cretaceous of Louisiana, VIII, 344
Brantly, J. E., *geology of the Gulf Coastal Plain, VIII, 21*
Brazil, review of publication on Campos district, VI, 388
review of publication on oil resources, VI, 261
review of publication on oil shale, VI, 388
review of publication on Serra da Baliza, VI, 385
Brazos sandstone, III, 138
Brea oil field, VI, 303
Breccia, tectonic salt masses in Carpathian Flysch, IX, 1185
Brecciation in cap rock, IX, 69
Breckenridge formation, III, 138; VI, 396
Breckenridge field, III, 165; IV, 160, 161–63; V, 545
Breithaupt geologists' compass, V, 511
Breitung, C. A., and Belchic, George, *gas production from the Spring Hill-Sarepta gas field, Webster and Bossier parishes, Louisiana, VII, 555*
Brewer oil field, IV, 163
Bridge, Samuel D., Jr., memorial of, V, 433
Briggs dome, Kentucky, VI, 31
British Columbia, oil geology, VI, 112
British West Indies, geology and oil resources of Trinidad, IX, 1000
Brock anticline, VI, 18
Brookfield coal, V, 368
Brooks dome, Texas, VI, 58
Foraminifera, X, 33
fossils, X, 31
geology, X, 30
structure, X, 35
topography, X, 30
Brown, I. O., and Hager, D. S., *Minerva oil field, Milam County, Texas, VIII, 632*
Brown, J. Earle, memorial of Charles Stirling Huntley, X, 1322
Brown, J. S., and Dake, C. L., review of their "interpretation of topographic and geologic maps," X, 906
Brown, Robert Wesley, review of his "valuation of oil and gas lands," IX, 356
Brownstone marl, Arkansas, VI, 352, 363
Brownstown marl, Louisiana, II, 62; IV, 128; V, 305, 477; VI, 181, 195
Browntowe formation, VI, 350
Brownwood formation, III, 142
Brucks, Ernest W., *Luling field, Caldwell and Guadalupe counties, Texas, IX, 632*
Bryan Heights dome, Texas, I, 44; III, 87; *IX, 613*
drilling methods, IX, 625
fossils, IX, 619
geology, IX, 616
mining methods, IX, 625
salt in, IX, 623
structure, IX, 616
topography, IX, 614
well log, IX, 622

Bryozoa, VII, 185
value in correlation, VIII, 544
Buchanan, George S., early Pennsylvanian Red Beds in the Mid-Continent region, IX, 814
Buckeye structure, X, 114
Buck Springs structure, Carbon County, Wyoming, X, 115
Buda formation, III, 301, 302; V, 7, 381; VI, 475
Buena Vista oil field, V, 458
Buffalo dome, III, 410
Buffalo Hills sandstone, I, 100
Bull Bayou oil field, IV, 127; VI, 195
Bull Creek limestone, II, 121
Bullhead Mountain formation, VI, 116
Bullwagon dolomite, I, 97
Bunger limestone, III, 138; V, 504
Bunger oil field, V, 637
Buntsandstein, Germany, IX, 424
Burbank field, Oklahoma, V, 502; *VIII, 584*
Hickman sand, VIII, 766
production-porosity curve, VIII, 768
Burdigalien formation, Europe, VI, 526
Bureau of Mines, U. S. G. S., review of its "preliminary report on underground conditions in the Haynesville oil field," VI, 142
Burgen sandstone, IV, 181; V, 121, 148, 406
Burgess sand, III, 212; V, 342, 404
Buried hills in relation to unconformities, X, 1036, 1065
Buried hills near Mannsville, Oklahoma, X, 138
Buried hills, reflected, in the oil fields of Persia, Egypt, and Mexico, X, 422
origin, X, 425
Burkburnett oil field, III, 49, 171; IV, 121; *V, 154*, 324, 427, 515; VI, 260
Burkett-Seeley pool, Kansas, VII, 482
production, VII, 487
structure, VII, 483
Burlington formation, IV, 45; V, 151
Burmese India and Dutch East Indies, oil production in, IX, 1097
Burnsville gas field, V, 84
Burroughs, E. H., review of his "bibliography of petroleum and allied substances for 1919–1920," VII, 302
Burton, George Edgar, correspondence from (on Permian in Cement oil field), III, 444
design for logmeter, III, 332
new development for oil and gas in Oklahoma during the past year (1917) and its geological significance, II, 53
relation of the base of the red beds to the oil pools in southern Oklahoma, V, 173, 326
Bustenari oil field, Europe, VI, 526
Butler County, Kansas, oil fields, V, 142, 276, 325, 358, 421, 509
Butler dome, Texas, VI, 58, 329
geology, X, 57
topography, X, 55
Button-Willow oil field, VI, 57
Bybee, Halbert Pleasant, *some recent notes on the Thrall oil field of Williamson County, Texas, V, 657*

C

Cabin Creek field, IV, 10, 28, 30; V, 81
Caddo anticline, VI, 15
Caddo formation, Oklahoma, II, 80
Texas, III, 142
Caddo gas field, VI, 188, 250
Caddo oil field, II, 64; III, 96, 165; IV, 127, 160; V, 309, 452; VI, 184, 192, 195, 353, 363, 477
Cadman, W. K., phantograph model, X, 1300
Calciferous sandstone, V, 614
Calciferous series, Scotland, VI, 376
Calcite cap, IX, 42
character and origin, IX, 68
source of calcite of, IX, 74
source of sedimentary material, IX, 72
Calcite in Big Hill dome, Texas, IX, 718
Calcium chloride waters from certain oil fields in Ventura County, California, IX, 1071
Calcium chloride waters from oil fields, bibliography on, IX, 1087
Caliche and pseudo-anticlines, IX, 1009
California, V, 684
age and correlation of the Kreyenhagen shale in, IX, 990
Baldwin Hills, geology, X, 508
Pleistocene fossils, X, 508
Pliocene and Pleistocene history, X, 502

stratigraphy, X, 505
structure, X, 511
topography, X, 504
bibliography of Miocene paleogeography in, X, 136
conservation laws, VI, 56
contribution to the geology of Los Angeles Basin, X, 753
core drilling with rotary tools in, VII, 250
decline of oil wells in, V, 178
department of oil and gas, establishment of, VIII, 75
diatomaceous shales, X, 899
dynamics of oil field structure in southern, VIII, 576
Eocene fossils in, IX, 992
Fernando group, X, 759
fossils, IX, 234; *X, 697*
Pliocene, X, 761
geologic formations and their correlation, VII, 411
geology of, bibliography, footnotes, VII, 411–20; X, 753–64
geology of Ventura County, VIII, 791
granitic rocks, X, 755
Huntington Beach oil field, VIII, 16
Kern River series, X, 492
Kreyenhagen shale, bibliography, footnotes, IX, 990–98
Long Beach oil field, VIII, 403
Los Angeles Basin, Cretaceous, X, 755
Lower Miocene, X, 756
Miocene fossils, X, 132, 757
Miocene paleogeography, X, 130
Miocene shale, X, 898
oil horizons, X, 766
oil pools, X, 767
Pico formation, X, 760
Pleistocene, X, 761
Pliocene, X, 760
production, X, 767
Saugus formation, X, 761
schist, X, 755
stratigraphy, X, 754
structure, X, 763
Tertiary rocks, X, 755
Vaqueros formation, X, 756
Monterey group, X, 756, 898
Foraminifera, X, 181
Monterey (Salinas) shales in Pine Canyon, Monterey County, VIII, 55
new oil fields, VI, 303
oil development, VIII, 61
oil production, bibliography, footnotes, VIII, 219–35
and reserves, VIII, 212
oil reserves, VI, 44
to close of 1921, VIII, 233
oil shale in Santa Barbara County, VIII, 459
oil situation, 1923, VIII, 1
oil-field waters, X, 1294
sulphate-reducing bacteria from, X, 1293
organic shales in the southern end of the San Joaquin Valley, IX, 228
production, 1924, VIII, 18, 227
production and consumption, VIII, 19
production in Huntington Beach field, VIII, 45
proportion of geologists in, V, 463
review of publication on resources, VI, 263, 264, 265, 389
rôle of the geologist in the development of the oil fields, VIII, 73
rotary drilling in, VIII, 135
Santa Fe Springs field, VIII, 10, 178
Santa Fe Springs, structure, VIII, 179
Signal Hill field, VIII, 14
southern, new development problems and their solution in oil fields, VIII, 135
State Mining Bureau, VIII, 75
State Mining Bureau, conservation methods, IV, 17
statistical matter on production, VI, 309
Sunset-Midway oil region, micropaleontological divisions, Etchegoin formation, X, 487, 488, 489
Tertiary, X, 892
unproved areas, VI, 481
Ventura (Avenue) field, VIII, 821
Ventura County, calcium chloride waters from certain oil fields in, IX, 1071
Wheeler Ridge anticline, structure, X, 499
Wheeler Ridge oil field, X, 495
Etchegoin formation, X, 497
faults, X, 499
Maricopa shale, X, 498
Miocene, X, 498
Paso Robles formation, X, 497
Pliocene, X, 497
production, X, 499
Quaternary, X, 497
Vaqueros formation, X, 498
California oil, source of, bibliography, footnotes, X, 709–20
were diatoms the chief source of? X, 709
California oil field practice, bibliography, footnotes, VII, 125–28
notes on, VII, 114
California oil fields, III, 293; V, 179, 454, 455, 463, 525, 623
fossils, X, 899
oil-producing horizons, X, 893
production of older, VIII, 2

Radiolaria in, X, 899
reservoir rocks, X, 895
tabulation, X, 893
Ventura County, VIII, 789
California petroleum, the relation of Foraminifera to the origin of, X, 697
California petroleums, chemical characteristics of, VIII, 560
unconformities in, VI, 306; VII, 414–20; VIII, 792, 793, 795, 796, 798, 802; IX, 233, 997, 998; X, 488, 502, 507, 719, 755, 759, 762, 897, 898
Calvert, W. R., gas at Farnham, Utah, VII, 293
Calvin formation, I, 134; III, 264; V, 123, 283, 401, 546; VI, 13
Camajuani formation, Cuba, II, 141
Cambrian, Kansas, II, 105
lack of oil in, V, 476
Louisiana, IV, 122
Minnesota, X, 194
New Mexico, V, 605
Oklahoma, IV, 174; V, 33, 121; VI, 6
Tennessee, V, 646
Texas, III, 128; V, 375
Utah, VI, 206
Wyoming, V, 187
Cambrian fossils, III, 288
Campbell, R. B., and Holman, E., *Bellevue oil field, Louisiana, VII, 645*
Campophyllum bed, III, 135, 143
Campton sand, IV, 307
Canada, V, 24, 455
Alberta, geology and development, IV, 249
British Columbia oil geology, VI, 112
developments at Fort Norman, Mackenzie District, VIII, 511
drilling in western, VII, 82
northern, important oil fields, V, 85
review of publication on new oil fields, VI, 261, 263
on problems of new development, VI, 264
on Saskatchewan, VI, 383
Canadian Front Range overthrust, X, 106
Candy Creek oil pool, III, 412
Cane-river beds, Louisiana, X, 235, 250, 264, 281
Caney shale, III, 75, 149, 235; V, 34, 549; VI, 6, 151
Cannel City sand, IV, 307
Canyon formation, Texas, III, 48, 68, 94, 134, 138, 141, 158, 169, 171, 188, 206; IV, 83; V, 155, 378, 504, 546, 548, 564; VI, 12
Canyon group, Texas, X, 462, 479
Cap Mountain formation, III, 175, 189
Cap rock, IX, 548
American salt domes, IX, 1229
Barbers Hill, Texas, IX, 964, 967
Big Hill dome, Texas, IX, 592, 716
Bistineau dome, Louisiana, X, 255
chemistry, IX, 76
constituents, IX, 43
Damon Mound, Texas, IX, 522, 528
Gulf Coast salt domes, IX, 601
Hockley dome, Texas, IX, 1042
King's dome, Louisiana, X, 259
nature of, IX, 329
Palestine dome, Texas, IX, 51
Pine Prairie dome, Louisiana, IX, 749
origin of, IX, 752
South Dayton dome, Texas, IX, 663
Spindletop dome, Texas, IX, 601
Stratton Ridge, IX, 9
Sulphur salt dome, Louisiana, IX, 486
types, IX, 42, 569
Vacherie dome, Louisiana, X, 243
Winnfield salt dome, Louisiana, X, 279
Cap rock formation, IX, 868
Cap rock of American salt domes, origin of, IX, 566
Cap rock of the interior domes of Texas, X, 17
Capillarity, affecting oil, I, 140
experiments in, I, 145
Captain limestone, I, 104
Carbon content, coals, IV, 309
Carbon dioxide from wells in Colorado, VIII, 831
Carbon ratio, Willis Storm, VII, 291
Carbon ratio map of Cretaceous coals in New Mexico, VIII, 521
Carbon ratios, north-central Texas, III, 149
of Cretaceous coals in New Mexico in their possible relation to oil, VIII, 519
relation of oil and gas to, VIII, 522
review of publication on, West Virginia, VI, 387
Carbonaceous shales, organic material of, VII, 440
Carboniferous, Arizona, VI, 226
China, III, 101; VI, 241
fossils, III, 251
Grand Canyon, VI, 48
Idaho, VI, 472
Montana, IV, 314; VI, 226; X, 986

New Mexico, V, 166; VI, 226
Oklahoma, V, 41, 45, 46; VI, 13
Texas, III, 132
Utah, VI, 226
Wyoming, V, 187; VI, 226; VIII, 515
Carlile shale, IV, 76; V, 202; VI, 72
Carlson, C. G., and Waring, G. A., *geology and oil resources of Trinidad, British West Indies, IX, 1000*
Carpathian and sub-Carpathian salt domes, IX, 1237
Carpathian Mountains, structure, IX, 1166
Carpathian region, geological structures of the, IX, 1166
Carpathian region of Roumania, geology of the salt domes in the, IX, 1165
Carpathians, age of salt of the, IX, 1189
geological work in, VI, 523
unconformities in, VI, 526
Carrizo sandstone, Texas, X, 51
Casper formation, V, 189, 191
Castile gypsum, V, 89
New Mexico, X, 848
Castle limestone, V, 259
Cat Creek anticline, VI, 146
Cat Creek oil field, V, 252, 327
Cat Creek sand, VI, 146
Catahoula formation, Louisiana, IV, 130; VI, 180
Texas, I, 36, 73; III, 313; V, 224
Catskill shale, V, 368
Cattell, R. A., and Bell, H. W., review of their "the Monroe gas field, Louisiana," VI, 155
Caudill, Samuel Jefferson, *the application of depletion allowance to oil-property taxation, V, 484*
Cayetano formation, Cuba, II, 140
Cayote Hills oil field, IV, 21
Cedar Creek dome, Louisiana, X, 282
geology, X, 284
structure, X, 286
topography, X, 284
wells, X, 284, 287
Cedar Grove oil field, IV, 132
Cedar Hills sandstone, II, 74
Cedartop gypsum, II, 114
Cement, use in drilling oil-wells, VIII, 144
Cement oil field, II, 55; III, 444; IV, 278
review of publication on, VI, 385
Cementation, natural in sandstone, IV, 33
Cenomanien, Europe, VI, 526
Central America, review of publication on, VI, 263
Cerithium beds, Europe, VI, 526
Cerro Azul oil field, V, 85
Chaffin beds, III, 143
Chalk, Louisiana, X, 263
at White Cliffs, Arkansas, age and correlation of the, with notes on the subsurface correlations of northeast Texas, IX, 1152
of Arkansas and Texas, bibliography, footnotes, IX, 1152–64
Chamberlin, T. C., presented with Penrose Medal, IX, 184
response to congratulations, VII, 711
Chaney gypsum, II, 114
Channel sandstone, IV, 198
Chapeño Salt Dome, Tamaulipas, Mexico, IX, 134
Chapman dolomite, II, 74
Chapman, Lewis C., possible subsea anticlines, Gulf of Paria, Trinidad-Venezuela, VI, 474
the Hockley salt dome, VII, 297
Chase formation, V, 508
Chattanooga black shale, Tennessee, VIII, 455
unconformity below, VIII, 627
Chattanooga shale, Kentucky, II, 41; IV, 174, 305; V, 99, 121, 146, 344, 406, 510, 522, 647, 651
Chautard, Jean, review of his "Les gisements de petrole," VII, 579
Checkerboard lime, I, 134; II, 120; III, 260, 270; V, 283, 400, 548
Chemical characteristics of California petroleums, VIII, 560
Chemical relation of salt dome waters, IX, 38
Chemistry, review of publication on its relation to oil prospecting, VI, 389
Cheney, Charles Albert, review of his "salt domes of northeastern Texas," VI, 58
theory of origin of salt domes, IX, 859
Cheney, Monroe George, South Bend field, Young County, Texas, V, 503
Cherokee shale, Kansas-Oklahoma, II, 110; III, 148, 212, 236; V, 121, 510, 548, 561; VI, 375
Cherokee shales, red beds near the base of the, IX, 350
Cherry limestone, III, 142
Cherryvale shale, V, 509

Chester age, III, 271; V, 95, 123, 152, 549; VI, 25
Chesapeake Bay, "black shale" formation in and about, VIII, 195
Chestnut Ridge anticline, V, 368
Cheyenne sandstone, II, 79; VI, 70, 551
Chickasha formation, Oklahoma, X, 798
Chicky-Choc formation, III, 76
Chico formation, VI, 305
Chimneyhill limestone, V, 34
China, Carboniferous, VI, 241
explorations in, III, 99
geologic provinces, X, 1076
northeastern, comparison with American oil fields, X, 1116
oil fields of, VIII, 169; IX, 1295
acknowledgments and correlations, X, 449
oil prospects in northeastern, X, 1073
in Shansi, X, 1083
in Shensi, X, 1089
oil wells in Shensi, X, 1105
Pleistocene, VI, 241
production in Shensi, X, 1109
review of publication on oil, VI, 261
Shensi oil field, VIII, 169
Szechwan oil field, VIII, 173
unconformities in, X, 1079, 1091, 1093, 1096
Chinle shale, Utah, VI, 47, 205, 211, 217
Chisos beds, V, 27
Chloride waters, comparison of various types, IX, 1078
Choctaw fault, III, 263
Chu, T. O., *oil fields of China, VIII, 169;* IX, 1295
Chugwater formation, Wyoming and Montana, X, 304
Chugwater red beds, IV, 38, 314; V, 191, 410
Chupadera formation, New Mexico, X, 837
fossils of, X, 838
Ciervo oil field, California, review of publication on, VI, 263
Cieskowice sandstone, Europe, VI, 526
Cincinnati arch, V, 495, 610, 617, 646
Cisco formation, I, 93; III, 48, 68, 94, 134, 138, 143, 169, 171, 191; IV, 83; V, 154, 155, 324, 378, 504, 548; VI, 12
Cisco group, Texas, X, 462
Claggett formation, V, 268; VI, 146
Claiborne dips, differential compacting the cause of, VII, 370
Claiborne formation, Louisiana, IV, 129; V, 383, 493, 632; VI, 180, 195, 249
Claiborne group, Louisiana, X, 225, 234, 250
Clapp, Frederick G., New Zealand oil discovery, X, 451
notes on natural gas fields of Transylvania, Roumania, VIII, 202
oil and gas prospects of New Zealand, X, 1227
oil prospects of the Desert Basin of Western Australia, X, 1118
oil prospects of the Northwest Basin of Western Australia, X, 1136
Clapp, Frederick G., and Fuller, Myron L., oil fields of China: acknowledgments and correlations of, X, 449
oil prospects in northeastern China, X, 1073
Claremore formation, I, 134
Clark, Frank R., *Kevin-Sunburst oil field, Montana, VII, 263*
Clark, Glenn Cecil, *Wilcox sand production, Tonkawa field, Oklahoma, X, 885*
Clark, Glenn Cecil, and Aurin, Fritz Love, *the Tonkawa field, Oklahoma, VIII, 269*
Clark, Glenn C., Aurin, F. L., and Officer, H. G., *core drilling for structure in the north Mid-Continent area, X, 513*
Clark, Glenn Cecil, Aurin, Fritz Love, and Trager, Earl Adam, *notes on the sub-surface pre-Pennsylvanian stratigraphy of the northern Mid-Continent oil fields, V, 117,* 324
Clark, Robert Watson, and Bauer, Clyde Max, *notes on the geology of the Okmulgee district, V, 282*
Clark, Stuart K., *Thomas oil field, Kay County, Oklahoma, X, 643*
Clear Creek formation, II, 118; III, 95, 142
Clear Fork formation, I, 95, 97, 102, 104; II, 118; III, 81, 95, 142, 169, 170
Cleveland sand, V, 400; VI, 466
Clifton formation, V, 654
Clinton sand, IV, 28, 45; V, 359
Cloverly sandstone, V, 196, 261
Coal, Eagle Pass, V, 21
Montana, I, 150
New Mexico, I, 149, 151
Coal tar, VI, 293
Coalinga oil field, V, 181, 457; VI, 57, 380

Coals in New Mexico, carbon ratios of Cretaceous, in their possible relation to oil, VIII, 519
Coast Ranges, Miocene paleogeography in, X, 130
Coast region, a revision of the Texas Tertiary section with special reference to the oil-well geology of the, VIII, 424
Coastal plain of Texas and Louisiana, subsurface stratigraphy of, IX, 79
Cockfield formation, Arkansas, VI, 351
Louisiana, V, 631; VI, 180
Coconino sandstone, VI, 47, 205, 210, 224, 226, 246
Arizona, X, 828
Coke County, Texas, geology, III, 117
Collingwood, D. M., further considerations of prospect for oil in the Decatur area, review by K. C. Heald, IX, 359
graphic method of determining the surface projection of the axis and crest traces at any depth of an asymmetrical anticline, V, 159, 328, 497
some structural and stratigraphic features affecting relative amounts of oil production in Illinois, V, 311
Collingwood, D. M., and Rettger, R. E., *Lytton Springs oil field, Caldwell County, Texas, X, 953*
Collingworth gypsum, II, 114
Collom, R. E., *notes on California oil field practice, VII, 114*
recommendation of rotary drilling in California, VII, 250
review of Charles Terzaghi's "principles of soil mechanics," X, 314
Collom, R. E., and Barnes, R. M., *California oil production and reserves, VIII, 212*
Colombia, Cretaceous, X, 383
Cretaceous fossils of, X, 384
Cretaceous strata in, X, 384
Eocene, X, 388
fossils, Eocene, X, 392
Miocene, X, 398
oil development, I, 156
oil in Tertiary rocks, X, 403
Oligocene, X, 398
original source of oil in, X, 382
discussion by Otto Stutzer, X, 1175
Pliocene, X, 401
review of publication on, VI, 383, 384
review of publication on new possibilities, VI, 264
Tertiary series, X, 386
unconformity in, X, 402
Color chart of the committee on sedimentation of the National Research Council, IX, 1018
Colorado, carbon dioxide from wells in, VIII, 831
gas near Fort Collins, VIII, 79
Green River basin, VIII, 302
Green River formation, VIII, 663; IX, 249
North-Central, fauna of the so-called Dakota formation of, and its equivalent in southeastern Wyoming, review, VII, 306
oil possibilities, VI, 88
oil reserves, VI, 44
review of publication on new oil fields VI, 385
on oil shales, VI, 385
stratigraphy, VI, 47
Tercio Park dome, faults, X, 121
thrust faults, X, 106
Colorado beds, variation in thickness in Montana, IX, 896
Colorado Bureau of Mines, investigation of composition of oil shales, VII, 296
Colorado School of Mines, geophysics at, X, 1305
Colorado shale, IV, 253, 314; V, 198, 257; VI, 116, 146, 335
Wyoming, VII, 488
Columbia oil field, Texas, I, 47; V, 212
Comanche oil field, IV, 280
Comanche Peak limestone, III, 168, 302, 359; V, 17
Comanchean, Big Lake oil field, Texas, X, 368
Glass Mountains, Texas, X, 878
Louisiana, X, 225, 227
possible source of salt, IX, 867
Texas, X, 770
western Kansas, IX, 1105
Comanchean formation, IV, 75; VI, 70, 551
Comanchean fossils, Kansas, X, 561
Comanchean strata of Central Kansas, new data on the, X, 553
Compacting, differential, the cause of certain Claiborne dips, VII, 370
experiments, X, 916
Compaction, the effect of gravitational, on the structure of sedimentary rocks, X, 1035

of sedimentary rocks, bibliography, footnotes, X, 1035–71
Compilation of Louisiana-Arkansas geology, plans for, VIII, 350
Compression of sediments, experimental, X, 1048
Concretions from Saratoga oil wells, IX, 274
Condit, D. Dale, *Permian in India, IX, 1269*
Cone-in-cone structure, X, 556
Congeria beds, Europe, VI, 526
Connecticut Valley sandstone, III, 291
Conservation, VII, 617
oil and gas in California, IV, 17
Continental drift, plans for discussion of, at New York meeting, November, 1926, X, 1002
problem of, résumé by W. A. J. M. Van der Gracht, X, 1002
Coochie Brake dome, Louisiana, X, 286
geology, X, 289
structure, X, 290
topography, X, 288
Cook, M. B., Dean, E. W., and Bauer, A.D., properties of typical crude oils from the producing fields of Kansas, VI, 370
Cook Mountain bed, V, 625
Cooke, C. Wythe, the relative dependableness of fossils, VII, 183
Cooper sand, IV, 306
Copper, Texas, III, 25
Copper Mountain granite ore, V, 187
Coral limestone, III, 135, 142
Coral reef surrounding Damon Mound, Texas, X, 978
surrounding West Columbia, Texas, X, 981
Coral Reefs .n the Oligocene of Texas, X 976
Corals, VII, 184
Cordilleran Branch of the Geological Society of America, annual meeting of the, X, 449
Cordilleran structure, relation of Central Montana to, VII, 2
Core barrel, use in California, VII, 124
Core drilling, costs, X, 526
for structure in the North Mid-Continent area, X, 513
methods, bibliography, footnotes, VII, 250–53
types of equipment, X, 520
with rotary tools in California, VII, 250
Core drills, types of, VII, 251
uses of, VII, 259
Corniferous sand, II, 42; III, 22; IV, 29; V, 95, 653; VI, 25
Correlation, Fort Scott-Wetumka, X, 810
by means of Foraminifera, methods of, X, 562
of sediments by petrographic methods, review, VIII, 97
Correlation of the Permian of Kansas, Oklahoma and northern Texas, X, 144
Correlative value of the heavy minerals, VIII, 158
Corrigan sandstone, IV, 130; V, 102, 223
Corsicana oil field, III, 96; IV, 8
Costa Rica, geology, IV, 263
petroleum possibilities of, review, VII, 455
stratigraphy, III, 363
Coste, E., theory of origin of salt domes, IX, 844, 850
Cote Blanche dome, Louisiana, IX, 780
geology, IX, 781
map of, IX, 782
physiography, IX, 781
Cotton Valley oil field, Louisiana, VIII, 244; *IX, 875*
development, IX, 878
production, IX, 883
stratigraphy, IX, 877
structure, IX, 878
topography, IX, 877
Cottonwood limestone, II, 74
Cottonwood oil pool, V, 82
Council Grove formation, V, 508
Covert-Sellers oil field, V, 118, 144, 507; VI, 429
Cowles, A. H., theory of origin of salt domes, IX, 849
Cow Run sand, III, 21
Cox, Guy Henry, memorial, VI, 566
Coyote oil field, VI, 303
Craddock, W. N., Taliaferro, N. L., and Hudson, F. S., *the oil fields of Ventura County, California, VIII, 789*
Craig, E. H. Cunningham, geophysical surveys as aids to the geologist, IX, 165
kerogen, IX, 180
review of his "oil findings," VI, 485

Creek and Osage counties, Oklahoma, discussion of Lyndon L. Foley's "origin of the faults in," X, 727
Cretaceous, Argentina, X, 857
Arizona, VI, 47
Arkansas, V, 8; VI, 54, 194, 196, 352, 363, 556
Balcones zone, Texas, X, 1261
Belgian Congo, V, 663
British Columbia, VI, 112
California, VI, 305, 482
Canada, IV, 250
Colombia, X, 383
Cuba, II, 140
Europe, VI, 526
Florida, III, 359
Idaho, VI, 472
in German salt anticlines, IX, 430
Kansas, V, 508; VI, 69, 90
Kentucky, IV, 304
Los Angeles Basin, California, X, 755
Louisiana, IV, 124; V, 8, *298*, 305, 343, 631; VI, 156, 181, 250, 259; X, 7, 225, 227, 262
volcanic rocks in the, VIII, 344
Lower, Alberta, VII, 148
(Comanchean), Montana, VII, 171
Gulf Coastal Plain, X, 10
possible source of salt, IX, 867
Rocky Mountain fields, VII, 405
Roumania, IX, 1171
Tampico district, Mexico, IX, 137
Texas, X, 7
Wyoming, VII, 138, 488
Mexico, V, 8, 398; IX, 127
oil possibilities, V, 5
Minnesota, X, 195
Mississippi, V, 491
Montana, IV, 314; V, 258; VI, 145
bibliography, footnotes, IX, 887–902
New Mexico, IV, 76, 95; VIII, 519
oil-bearing zone of El Dorado field, VII, 354
Oklahoma, III, 254, 256, 263; V, 34; VI, 6
Panuco River Valley, Mexico, X, 671
Peru, V, 598
South Dakota, VI, 552
southern California, VII, 413
Switzerland, IV, 88
Tennessee, V, 171
Texas, III, 132, 168, 251; *V, 5*, 27, 326, 380; VI, 59, 323, 475; X, 613
Upper, Alberta, VII, 148
Louisiana, X, 7, 227
Louisiana, bentonite in the, VIII, 342
Mexia, Texas, VII, 226
Montana, VII, 159
relation of, to Eocene structures in Louisiana and Arkansas, VII, 379
Rocky Mountain fields, VII, 404
Roumania, IX, 1171
sedimentation and diastrophism in Montana, IX, 886
Tampico District, Mexico, IX, 139
Texas, X, 7
Wyoming, VII, 95, 138, 488
Utah, VI, 204, 220, 244
Wyoming, V, 195, 201, 408; VI, 514; VIII, 515
Cretaceous fossils, V, 326
Colombia, X, 384
south Texas domes, IX, 559
Cretaceous section of southwest Bexar County, Texas, subsurface, X, 768
Cretaceous strata in Colombia, X, 384
Crider, Archibald F., deep Pine Island gas, IX, 171
relation of Upper Cretaceous to Eocene structures in Louisiana and Arkansas, VII, 379
the El Dorado, Arkansas, oil field and its relation to north Louisiana structure, VI, 193
volcanic ash in northern Louisiana, VIII, 524
Criner Hills, V, 35, 48, 175; VI, 6
Crude-oil prices, IX, 799
Crushing strength and porosity as indices of regional alteration, X, 939
Crustacea, VII, 185
Cuba, geology of oil fields, II, 133
results of drilling, II, 157
the Jurassic as a source of oil in western, VIII, 516
unconformity in, VIII, 518
Cucaracha formation, III, 365
Cumberland coal field, V, 648
Cummins, Dr. W. F., address at fourth annual meeting of American Association of Petroleum Geologists, III, 25
Cunningham, George M., *the Wheeler Ridge oil field, X, 495*
were dialoms the chief source of California oil? X, 709
Cup Coral formation, VI, 7
Currie Field, Texas, VII, 25
Eocene, 26
faulting, X, 64
stratigraphy, VII, 26
structure, VII, 26
well logs, VII, 34
Cushing oil field, Oklahoma, III, 445; IV, 90; V, 120, 132, 149, 413, 445, 546, 576; VI, 61, 79, 320
structure of, III, 259

Cushman, Joseph A., *Eocene fauna from the Moctezuma River, Mexico, IX, 298*
identification of Foraminifera, VII, 517
on Foraminifera, X, 700
the Foraminifera of the Velasco shale of the Tampico Embayment, X, 581
the use of Foraminifera in geologic correlation, VIII, 485
Cushman, J. A., and Applin, E. R., *Texas Jackson Foraminifera*, X, 154
Cutler, Jr., Willard W., review of his "estimation of underground oil reserves by oil-well production curves," IX, 361
predictions of the future of oil pools by early wells, X, 747
Cuyahoga sandstone, IV, 308; V, 151
Cypress sandstone, V, 171; VI, 25
Czar district, Alberta, VII, 154
Czecho-Slovakia, stratigraphy, VI, 523

D

Dacian formations in Roumania, IX, 154
Dacite dike, V, 71
Dake, C. L., and Brown, J. S., review of their "interpretation of topographic and geologic maps," X, 906
Dakota sandstone, Canada, IV, 250, 314; V, 524
Kansas, II, 80; V, 508; VI, 72, 551; IX, 1019
Montana, VI, 146
New Mexico, IV, 76, 96, 109; V, 18, 331
South Dakota, VI, 552
Texas, III, 96; V, 7, 20, 24
Utah, VI, 204, 220
Wyoming, III, 358; IV, 38; V, 196
Dalmar sand, Texas, X, 466
Damon Mound, Texas, II, 23; III, 87; V, 212; VI, 253; IX, 505, 860
analysis of waters from, III, 323
bibliography, IX, 534
cap rock, IX, 522, 528
coral reef surrounding, X, 978
development, IX, 507, 512
drilling and production methods, IX, 531
geology, IX, 521, 528
occurrence of sulphur waters, IX, 36
oil deposits, IX, 529
physiography, IX, 511
production curves, IX, 530
salt core, IX, 522
stratigraphy, IX, 527
structure, IX, 524
sulphur, IX, 524
topography, IX, 521
well log, IX, 525
wells at, IX, 511
Darby thrust fault, X, 106
Darton, N. H., geology of the Big Horn Mountains, Wyoming, VII, 171
the Permian of Arizona and New Mexico, X, 819
Davenport dome, Kentucky, VI, 31
Day, David T., review of his "handbook of the petroleum industry," VII, 588
Day Creek formation, II, 74, 114
Dayton dome, V, 336
Deadwood sandstone, V, 187
Dean, David, and Snow, D. R., *Rainbow Bend field, Cowley County, Kansas, IX, 974*
Dean, E. W., Cook, M. B., and Bauer, A.D., properties of typical crude oils from the producing fields of Kansas, VI, 370
Deaner oil field, Oklahoma, V, 290, 687; VI, 260
sand, V, 290, 404
De Bonnier, Andre Surny, review of his "Roumanian petroleum industry during the first quarter of 1922," VII, 303
Decatur area, further considerations of prospect for oil in, review, IX, 359
De Chelly sandstone, VI, 48
Decker, Charles E., secretary's report for 1922, VII, 310; for 1923, VIII, 375; for 1924, IX, 695; for 1925, X, 541; treasurer's report for 1922, VII, 311; for 1923, VIII, 376; for 1924, IX, 696; for 1925, X, 542
Decline curve prediction, IV, 209
Decomposition, a cause of the compaction of sediments, X, 1037
Deepest well, Germany, II, 131
in world, II, 131; III, 21; IV, 29
Deer Creek-Topeka series, V, 581
Deese formation, VI, 7
Defiance uplift, of Arizona, X, 827
De Golyer, Everette Lee, a simple method of taking cores in wells being drilled by the rotary system, V, 515

debt of geology to the petroleum industry, V, 394
geology of Cuban petroleum deposits, II, 133
memorial, Philip Charteris Anstruther Stewart, VII, 321
origin of North American salt domes, IX, 831
potash salts and fossil algae in Texas salt dome, IX, 348
president's report for 1925, X, 540
theory of origin of salt domes, IX, 854
Zacamixtle pool, Mexico, V, 85

Del Rio formation, III, 301, 306; V, 19, 380

Denison, A. R., discussion on early Pennsylvanian sediments west of the Nemaha Granite Ridge, Kansas, X, 636
Robberson field, Garvin County, Oklahoma, VII, 625

Denison formation, II, 62, 80; V, 307; VI, 181

Desdemona oil field, IV, 160

Desert Basin, Western Australia, fossils of, X, 1128
geologic structure, X, 1132
Jurassic, X, 1129
oil prospects of the, X, 1118
stratigraphy, X, 1127

De Soto-Red River oil field, IV, 127; V, 309; VI, 184, 192, 353, 363, 478, 556

Detrick sand, V, 291

Deussen, Alexander, *Humble (Texas) oil field, I, 60;* discussion of same, I, 79
memorial of Captain Anthony F. Lucas, V, 688
review of developments in the Gulf Coast country in 1917, II, 16
theory of origin of salt domes, IX, 851, 860

Deussen, Alexander, and Lane, Laura Lee, *Hockley salt dome, Harris County, Texas, IX, 1031*

Deustua, R. A., review of his "oil in Peru," X, 98

Development, Barbers Hill field, Texas, IX, 958, 961
Cotton Valley field, Louisiana, IX, 878
Damon Mound, Texas, IX, 512
Minerva field, Texas, VIII, 638
oil in California, VIII, 61
Stratton Ridge salt dome, Texas, IX, 32

Development methods, Graham field, Oklahoma, VIII, 616
Development problems and their solution in Southern California oil fields, new, VIII, 135
Luling field, Texas, IX, 650

Development work, VIII, 653

Devonian, Alberta, VII, 148
Argentina, X, 854
Bolivia, X, 854
Canada, V, 86, 524
Illinois, IV, 45
Indiana, IX, 321
Kansas, II, 105, 109; V, 146, 509
Kentucky, II, 40; III, 357; IV, 304; V, 522; VI, 24
Minnesota, X, 195
New Mexico, IV, 104
Ohio, V, 609
oil of, III, 292
Oklahoma, IV, 174; V, 34, 152; VI, 6, 161
shales, oil of, VI, 335
Tennessee, V, 168, 653
Thomas field, Oklahoma, X, 648
Utah, VI, 207
West Virginia, IV, 28

Devonian bituminous shale, X, 872

Devonian fossils, Argentina, X, 856
Bolivia, X, 856

Dewey limestone, II, 121; V, 546, 566

Dewitt formation, III, 313, 316; V, 384

DeWolf, Frank Walbridge, *Illinois security law, IV, 169*
professional ethics, VI, 392

DeWolf, Frank Walbridge, and Mylius, Louis Aubrey, *a new Trenton Field in Illinois, IV, 43*

DeWolf, F. W., and Seashore, Paul T., *diamond drilling near Kerens, Navarro County, Texas, X, 703*

Diamond drill equipment, X, 662
cost, X, 665

Diamond drilling, V, 386, 674; *VI,* 64, *91, 98,* 139, 369, 399
near Kerens, Texas, X, 703
review of publication on, VI, 264, 265, 390

Diamond drills and diamond-drill equipment for oil structure investigation, X, 656

Diapir fold, IX, 1239

Diapir folds, according to Mrazec, VII, 583
in Germany, IX, 428

Diastrophism, Upper Cretaceous, causes, IX, 901
Diastrophism and Upper Cretaceous sedimentation in Montana, IX, 886
Diatomaceous shales, California, X, 899
Diatoms, Miocene, in California, IX, 234
were they the chief source of California oil? X, 709
Dielectric separation: a new method for the treatment of ores, review, VIII, 682
Dimple formation, V, 377, 545, 556
Dip of strata, curve for estimating, IX, 463
Direct synthesis of higher from lower hydrocarbons, VIII, 830
Dobbin, Carroll Edward, and Thom, Jr., William Taylor, oil and gas prospects in Garfield County, Montana, VI, 144
Dobrotow beds, Europe, VI, 526
Dodge, W. E., notes to inventor geologists, VI, 50
Dog Creek formation, II, 74, 114
Dolomite, oölitic, Big Lake oil field, Texas, X, 375
Dolomite beds, I, 102
limestone, V, 330, 376
Dolomitic limestone, Argentina, X, 855
Dolores formation, VI, 215
Donoghue, David, absence of metamorphosed sedimentary rocks in the Texas Panhandle, VIII, 241
Bayou Bouillon salt dome, Louisiana, IX, 1283
Section 28 salt dome, Louisiana, IX, 1290
Donovan, Percy Williams, discussion on diamond drilling, VI, 139
Dos Bocas oil pool, V, 85, 453, 505
Dothan formation, III, 145
Double Mountain formation, I, 95, 97, 102, 103; III, 95, 117, 169, 170; IV, 270; V, 379
Douglas formation, II, 104
Douglas oil field, V, 203, 422, 423
Doyle limestone, VI, 427
Drach, G. K., review of water troubles in the Russian oil fields, VII, 586
Drake's salt dome, Louisiana, X, 271
geology, X, 273
structure, X, 275
topography, X, 272
wells on, X, 272
Dreher, Otto, *files of the oil geologist, IX, 331*
Drilling, core, costs, X. 526
types of equipment, X, 520
deeper, in the Rocky Mountain fields, VII, 400
diamond, near Kerens, Navarro County, Texas, X, 703
in Queensland, review of, VII, 196
in Rocky Mountain fields, VII, 407
in Western Canada, VII, 82
rotary, VIII, 641
town-lot, VII, 118
Drilling costs, review of publication on, VI, 390
Drilling methods, Archer County oil field, Texas, X, 475
Barbers Hill, Texas, IX, 971
Bryan Heights dome, IX, 625
Damon Mound field, Texas, IX, 531
Edgerly field, IX, 504
Goose Creek field, IX, 295
Sakhalin Island, X, 1166
Ventura (Avenue) field, California, VIII, 828
Welsh field, Louisiana, IX, 476
Drilling systems, Tonkawa field, Oklahoma, VIII, 294
Drilling with electricity, review of publication on, VI, 389
Drills, VII, 251
diamond, and diamond-drill equipment for oil structure investigation, X, 656
rotary, VII, 121
Drop auger, an experiment with a, X, 722
Dropright dome, V, 132; VI, 81
Drum limestone, V, 548
Drumright dome, VI, 81
Dry holes, percentage of, in Gulf Coast, II, 37
Dubendorf, H. H., Schwennesen, A. T., and Overbeck, R. M., *the Long Beach oil field and its problems, VIII, 403*
Duce, James Terry, carbon dioxide from wells in Colorado, VIII, 831
Dudley shale, V, 293
Duessen, Alexander, theory of origin of salt domes, IX, 860

Duke oil field, III, 50, 166
Dumble, E. T., *a revision of the Texas Tertiary section with special reference to the oil-well geology of the coast region, VIII, 424*
theory of origin of salt domes, IX, 850, 855
Duncan oil field, IV, 277; V, 32, 627; VI, 424
Duncan sandstone, V, 627
Oklahoma, X, 797
Dunkard sand, III, 21
Dunvegan formation, VI, 116
Dutch East Indies, V, 417
Dutcher sand, V, 290, 404, 486; VI, 395
Dynamics of oil-field structure in southern California, VIII, 576

E

Eagle Ford formation, Texas, X, 49, 50
Arkansas, VI, 350, 363, 477
Louisiana, II, 62; IV, 122; V, 298; VI, 181
Texas, III, 97, 302; V, 8, 381, 420; VI, 475; X, 41
Eagle Ford shale, Texas, X, 770
Eagle Pass coal, V, 27
Eagle Pass formation, V, 7
Eagle sandstone, Montana, IV, 315; V, 258; VI, 146
East Africa, V, 671
East Coast district, New Zealand, geology, X, 1247
bibliography, X, 1258
wells drilled in, X, 1252
Eastland oil field, III, 138
Eaton, Arthur, memorial by Clarence B. Osborne, VII, 461
Eaton, J. E., *a contribution to the geology of Los Angeles Basin, X, 753*
Ebano oil pool, V, 505
Eby, J. Brian, *the possibilities of oil and gas in southwest Virginia, as inferred from isocarbs, VII, 421*
Echinoids, VII, 185
Eckes, Charles R., *description of cuttings from the Duffer wells, Ranger field, III, 39*
Economic and physical factors in the spacing of wells, IX, 215
Edgerly crude oil, analysis of, IX, 502
Edgerly oil field, Louisiana, chlorine content in water, IX, 41
drilling methods, IX, 504
geology, IX, 499
production curve, IX, 503
Edmonton sandstone, IV, 250
Edson, Fanny Carter, *Simpson formation, Oklahoma, VII, 558*
Edson, Frank Aaron, *diamond drilling for production, VI, 91*
drilling wells with the diamond drill, V, 386, 674
Edwards, E. C., and Twenhofel, William Henry, *the metamorphic rocks of Woodson County, Kansas, V, 64*
Edwards formation, III, 302, 304; V, 17, 381; VI, 496
Egypt, Mexico, and Persia, reflected buried hills in the oil fields of, X, 422
Egypt, review of publication on, VI, 386
unconformities in, X, 434, 439
Egyptian oil fields, X, 433
Ehrat, process of oil mining, X, 417
Elbing oil field, IV, 255; V, 144, 422, 507, 580; VI, 429
El Dorado oil field, Arkansas, V, 90, 111, 427; *VI*, 54, 142, 180, 187, *193*, 250, 350, 355, 358, 473, 477, 479, 554
geology, VII, 354
history of development, VII, 353
stratigraphy, VII, 354; review, VII, 198
structure, VI, 358, 479; VII, 354
El Dorado oil field, Kansas, IV, 90, 255; V, 120, 138, 146, 422, 423, 509, 564, 576, 580; *VI*, 79, 321, 374
Eldridge, W. J., and Robinson, W. L., correlating gumbos, IX, 906
Electra oil field, III, 49, 93, 94, 171; IV, 121; V, 154
Elizabeth sand, V, 368
Elgin oil pool, VI, 468
Elgin sandstone, II, 122
Elk Basin oil field, Wyoming, IV, 37; VII, 95
Elk Hills oil field, IV, 21; V, 458, 624; VI, 57, 316
Ellenberger formation, III, 70, 78, 139, 157, 169, 175, 188, 219, 222, 243, 296, 334; *IV*, 83, 161, *283*; V, 376, 503; VI, 150
Elliott Core Drilling Company, VII, 127

Elliott, J. E., *core drilling with rotary tools in California, VII, 250*
Ellis formation, V, 257; VI, 146
Ellison, Robert S., *what an oil company expects of the geologist, VI, 516*
Ellisor, Alva Christine, *age and correlation of the chalk at White Cliffs, Arkansas, with notes on the subsurface correlations of northeast Texas, IX, 1152*
coral reefs in the Oligocene of Texas, X, 976
Ellisor, Alva C., Applin, Esther Richards, and Kniker, Hedwig T., *subsurface stratigraphy of the coastal plain of Texas and Louisiana, IX, 79*
Elm Grove gas field, II, 67; IV, 132; VI, 189, 195
Elmdale formation, I, 112, 113; II, 74
El Paso limestone, IV, 104
Ely, Fred B., theories relative to oil and gas deposits, VIII, 94
Embar formation, III, 357; IV, 38, 314; V, 190, 259, 410; VI, 226
Emmons, W. H., review of his "experiments on accumulation of oil in sands," V, 103
English, Walter A., *planetable methods, VIII, 47*
Enid formation, I, 104; II, 74, 114
the subdivision of, X, 786
Enterprise shale, II, 75
Eocene, Alaska, VI, 295
Arkansas, VI, 350; IX, 167
Belgian Congo, V, 663
Borneo, V, 417
California, VI, 305, 482; VIII, 792, 794
Colombia, X, 388
Colorado, VI, 340
Costa Rica, III, 364
Currie field, Texas, VII, 26
Europe, VI, 526
Florida, III, 290
fossils, California, IX, 992
fossils, Colombia, X, 392
Hockley dome, Texas, IX, 1050
Louisiana, V, 631; VI, 180, 252; X, 7, 225, 227, 281
Luling field, Texas, VIII, 776
Lytton Springs field, Texas, X, 956
Mexia zone, Texas, X, 1261
Montana, VI, 144
Panama and Costa Rica, III, 364
Roumania, IX, 1171
Saratoga Field, Texas, IX, 268
southern California, VII, 413
Tamaulipas, Mexico, IX, 129
Tampico district, Mexico, IX, 142
Texas, X, 7, 155, 769
Texas coast region, VIII, 441
Utah, VI, 223, 340
Wyoming, V, 53, 206, 408; VI, 340; VII, 138
Eocene fauna from the Moctezuma River, Mexico, IX, 298
Eocene Foraminifera, Texas, VIII, 443
Eocene formations, Louisiana, X, 232
Eötvös torsion balance, IX, 807
Schweydar-Bamberg type, X, 1201
torsion-balance principles, X, 1210
Epi-anticlinal faults, X, 116
Equal-pound-loss law, X, 901
Equus beds, Kansas, II, 82
Erdöl, das, und seine Verwandten, review, VII, 584
Escondito formation, V, 27; VI, 324
Eskridge shale, I, 113; II, 74
Estabrook, Edward L., an alibi for geologists, IX, 1295
faulting in Wyoming oil fields, VII, 95
occurrences of oil and gas in Wyoming, VIII, 515
Wyoming oil-field waters, IX, 235
Etchegoin formation, VI, 58
micro-paleontological divisions, Sunset-Midway oil region, California, X, 487, 488, 489
Wheeler Ridge, California, X, 497
Ethics, professional, of geologists, I, 127
Etzikom Coulee, Alberta, well, VII, 155
Europe, Czecho-Slovakia, VI, 523
northwest, structure of the salt domes, as revealed in salt mines, IX, 326
salt domes in, I, 85
Switzerland, IV, 87
Europe and Asia, status of Americans in petroleum developments, IX, 1089
European salt domes, IX, 328
Eutaw formation, I, 154; V, 492, 655
Experiment with a drop auger, X, 722
Exploration work, VII, 615; VIII, 652
Exter formation, IV, 75

F

Falfurrias dome, geology, IX, 578
physiography, IX, 577

Fath, Arthur Earl, is the Stapleton pay of the El Dorado field, Butler County, Kansas, Ordovician or Mississippian in age? VI, 374
suggestion of origin of faults in Oklahoma, X, 295

Fath, Arthur Earl, and Moulton, G. F., review of their "oil and gas field of the Lost Soldier-Ferris district, Wyoming," IX, 363

Faulting, Currie field, Texas, X, 64
in the Rocky Mountain region, X, 105
in Wyoming oil fields, VII, 95
Panhandle anticline, Texas, X, 741

Faulting and petroleum accumulation at Mexia, Texas, VII, 226
discussion, VII, 233

Faults, deep-seated, relation to the surface structural features of central Montana, VII, 1
effect on migration of oil and gas, X, 125
epi-anticlinal, X, 116
Glass Mountains, Texas, X, 879
in Creek and Osage counties, Oklahoma, origin of, X, 293
in Creek and Osage counties, Oklahoma, origin of, discussion, X, 727
influence in causing segregation and accumulation of oil, VII, 219
Little Lost Soldier dome, Wyoming, X, 120
natural gas as a factor in oil migration and accumulation in the vicinity of, VII, 14
Tercio Park dome, Colorado, X, 121
Texas, X, 1261
the Wortham and Lake Richland, IX, 172
Wertz dome, Wyoming, X, 120
Wheeler Ridge, California, X, 499

Fauna of the Brownstown beds, Arkansas, IX, 1158
of the Glenn formation in the Ardmore quadrangle, VII, 342
of the so-called Dakota formation of north-central Colorado and its equivalent in southeastern Wyoming, review, VII, 306
of the Wapanucka limestone in the Atoka quadrangle, VII, 341

Faunas, Miocene, Louisiana, IX, 88
Miocene, Texas, IX, 85
Pliocene, Texas and Louisiana, IX, 83

Fayette formation, Texas, I, 35, 73, 74; II, 22; III, 313; V, 625

Fayette oil field, V, 358

Fayetteville formation, III, 271; IV, 180; V, 121, 147, 344, 405

Fence Post formation, II, 81

Fenneman, N. M., description of oil and gas at Saratoga field, Texas, IX, 277
theory of origin of salt domes, IX, 845

Ferguson formation, II, 114

Ferguson, John L., review of his "oil and gas prospects in the vicinity of Button-Willow, Kern County, California," VI, 57
review of Willard Rouse Jillson's "preliminary report on the oil shales of Kentucky," V, 522

Ferguson, R. N., and Willis, C. G., *dynamics of oil-field structure in southern California, VIII, 576*

Fernando formation, VI, 306

Fernando group, Los Angeles Basin, California, X, 759

Fern Glen limestone, V, 151

Fernie shale, IV, 250

Ferron sandstone, VI, 222

Field balance, horizontal, X, 1191
vertical, X, 1190

Field balances, application, X, 1194
construction, theory, and application, X, 1189
magnetic, bibliography, X, 1199

Field geology, review, VII, 300

Fields sand, V, 290

Fifth sand, VI, 449

Files of the oil geologist, IX, 331

Finch, John Wellington, *status of Americans in petroleum developments of Europe and Asia, IX, 1089*

Findlay oil field, VI, 381

First Preston sand, V, 290

Fisher, C. A., review of petroleum development and technology in 1925, X, 1309

Five Islands, Louisiana, IX, 756, 836
bibliography of, IX, 795
comparison with the great salt deposits of the world, IX, 794
problems presented by, IX, 792

Fixed carbon theory applied to southwest Virginia, VII, 421
Flagstone formation, II, 81
Fleming clay, Louisiana, IV, 130; VI, 180
Texas, I, 36, 52, 73, 74; III, 312; V, 223
Flint Hills, V, 421
Flooding oil wells, method, IX, 801
Florence flint, I, 113; VI, 427
Florence oil field, Colorado, VI, 90
Florence oil field, Kansas, IV, 255; V, 146, 507
Florida, V, 242
review of publication on, VI, 384
Flow beans, use of, VIII, 149
Flowage experiments on oil shale, IX, 1130
Flower-pot shale, II, 74
Flysch, Roumania, IX, 1171
Flysch formation, Europe, VI, 523
Flysch zone, IX, 1237
of the Carpathians, IX, 1168
Flysch-Klippen, IX, 1205
Folding, effect of stratigraphic variation on, V, 481
oil accumulation in relation to periods of, VII, 58
Folds, Glass Mountains, Texas, X, 880
Foley, Lyndon L., *mechanics of the Balcones and Mexia faulting, X, 1261*
discussion by E. L. Ickes, X, 727
origin of the faults in Creek and Osage counties, Oklahoma, X, 293
Foraminifera, VII, 184
aid to the study of, IX, 667
American Tertiary formations, VII, 526
bibliography, VII, 529
Brooks salt dome, Texas, X, 33
Eocene, Mexico, IX, 298
Texas, VIII, 433
Hockley dome, Texas, IX, 1048, 1051
Jackson, IX, 111
literature on, VII, 529
methods of correlation by means of, X, 562
Midway, Keechi dome, Texas, X, 40
Miocene, in California, IX, 230
Monterey shale, in California, X, 131
Oligocene, Texas, IX, 102; X, 977
Panuco district, Mexico, X, 684
Pecan Gap chalk, Arkansas, IX, 1155
Pliocene, Texas and Louisiana, IX, 83
relation to origin of California petroleum, bibliography, footnotes, X, 697–701
relative value of species of smaller, for the recognition of stratigraphic zones, VII, 517
short cuts in picking out and sectioning, X, 1173
smaller, for stratigraphy, VIII, 246
Spring Hill-Sarepta gas field, VII, 547
Stratton Ridge salt dome, Texas, IX, 23
Texas, VIII, 443; IX, 19, 21
Texas Jackson, X, 154
the relation of, to the origin of California petroleum, X, 697
the use of, in geologic correlation, VIII, 485
value in correlation, VIII, 539, 546
variations, X, 483
Velasco shale of the Tampico embayment, X, 581
Fordham, W. H., review of his "oil finding by geophysical methods," X, 200
Foreign petroleum resources, bibliography of, VII, 593, 698; VIII, 251, 352, 678, 834; IX, 368, 672, 815, 911
Formation thicknesses, determination of, IX, 451
Formations in the oil and gas fields of northern Louisiana and southern Arkansas, VII, 364
in the Rawlins-Lost Soldier district, VII, 138
in the salt-dome region of northern Louisiana, X, 227
Fort Hays limestone, VI, 550
Fort Norman, Mackenzie District, Canada, V, 86, 524
developments at, VIII, 511
Fort Payne formation, IV, 306; VI, 25
Fort Riley limestone, I, 112; VI, 79, 427
Fort Scott limestone, I, 134; II, 119; III, 264, 270; IV, 174; V, 39, 276, 546, 561, 581
Fort Scott-Wetumka correlation, X, 810
Fort Union formation, VI, 144
Fort Worth limestone, II, 62; V, 307; VI, 181
Fossil algae and potash salts, discovery of, in Texas salt dome, IX, 348
Fossil cast, inclusion of petroleum in a, IX, 667
Fossil constituents of oil shales, X, 861; temperature distinctions, X, 875
Fossils, Bend formation, III, 42, 62, 71, 226–31, 336, 419
Big Hill dome, Texas, IX, 593, 722

Big Lake oil field, Texas, X, 370
Brooks dome, Texas, X, 31
Brownstown beds, Arkansas, IX, 1158
Bryan Heights dome, Texas, IX, 619
California, X, 697
California oil fields, X, 899
Chupadera formation, New Mexico, X, 838
Cisco formation, V, 155, 330
Comanchean, Kansas, II, 79; X, 561
Cretaceous, Colombia, X, 384
New Mexico, IV, 76
south Texas domes, IX, 559
Desert Basin, Western Australia, X, 1128
Devonian, III, 289
Argentina, X, 856
Bolivia, X, 856
Dunvegan formation, VI, 125
Ellenberger formation, III, 63
Eocene, Arkansas, IX, 169
California, IX, 992
Colombia, X, 392
Mexico, IX, 298
Panama and Costa Rica, III, 363
Texas, VIII, 443
Glenn formation, VI, 5
Green River formation, VIII, 664
Wyoming and Colorado, IX, 249
Gulf Coast wells, I, 37, 38, 73
Gunsight formation, III, 144
Hockley dome, Texas, IX, 1048
Jackson, Hockley dome, Texas, IX, 1051
Texas, IX, 111
Jennings Field, Louisiana, X, 83
Keechi dome, Texas, X, 39
Lower Bend shale, III, 139, 229; VI, 152
Luling field, Texas, VIII, 779–84; IX, 644
Mancos shale, VI, 220
Marble Falls formation, III, 73, 139, 230, 238; VI, 152
Marion formation, II, 75
Marlbrook formation, VI, 474
Midway limestone, VI, 327, 329
Miocene, California, IX, 234; X, 132
Los Angeles Basin, California, X, 757
Louisiana, II, 21; IX, 88
Texas, VI, 278; IX, 85
Texas and Louisiana, IX, 97
Nacatoch sand, Arkansas, VI, 54
Niobrara formation, VI, 71
of coral reefs in the Oligocene of Texas, X, 977
of Pecan Gap chalk in Arkansas, IX, 1155
in Texas, IX, 1159
Oligocene, Hockley dome, Texas, IX, 1050
Panama and Costa Rica, III, 364
Texas, IX, 102
Panuco district, Mexico, X, 684
Pennsylvanian, III, 290; VI, 551
Permian, Arizona, X, 825
Kansas, X, 148
Oklahoma, X, 148
Texas, X, 148
Wyoming, VI, 89
Permo-Carboniferous, Western Australia, X, 1142
Pine River formation, VI, 119
Pleistocene, Oklahoma, I, 138
Baldwin Hills, California, X, 508
Pliocene, Los Angeles Basin, California, X, 761
Louisiana, II, 21
Texas, II, 33
Texas and Louisiana, IX, 83
Recent, Oklahoma, I, 138
relative dependableness of, VII, 183
Ste. Genevieve formation, Kentucky, VI, 26
St. Louis limestone, Kentucky, VI, 26
Saratoga Field, Texas, IX, 272
Simpson formation, VII, 563
Smithwich shale, III, 73, 231
Stratton Ridge salt dome, Texas, IX, 23
Supai formation, Arizona, X, 825
Tampico Embayment region, Mexico, X, 581
Tertiary, North (Russian) Sakhalin, X, 1156
Texas, X, 154
Texas Tertiary section, VIII, 431
Triassic, British Columbia, VI, 117
use in correlation, VIII, 543; X, 562
Waldrip formation, Texas, III, 144
Welsh field, Louisiana, IX, 468
Woodbine sand, Texas, X, 617

Foster, Alden Wrhen, and Johnson, Roswell Hill, *barrel costs vs. well-day costs, IV, 299*

Fountain formation, II, 84

Four Six dome, VII, 239

Fox Bush oil field, V, 422

Fox Hills formation, V, 26; VI, 145

Fox oil field, V, 32, 173, 454, 626; VI, 23, 367

France, southern, oil well, IX, 346

Franciscan formation, VI, 305

Franklin, Louis, *a preliminary study on the recovery of oil by sinking shafts and driving galleries, VI, 342*

Franks conglomerate, III, 264; V, 471, 546; VI, 12

Fredericksburg formation, V, 7, 16, 19, 307; VI, 181
Fredonia formation, VI, 26
Frio formation, I, 37; V, 625
Frontier formation, III, 358; IV, 38; V, 200, 264, 409; X, 125
Fuel distillates, California, VIII, 567
Fuller, Myron Leslie, *explorations in China, III, 99*
relation of oil to carbon ratios, VIII, 522
of Pennsylvanian coals in North Texas, discussion, VII, 291
water problems of the Bend series, III, 151
Fuller, Myron L., and Clapp, Frederick G., oil fields of China: acknowledgments and correlations of, X, 449
oil prospects in northeastern China, X, 1073
Fuller's earth in Illinois, VI, 155
Fullerton oil fields, VI, 303
Furbero oil pool, V, 505
Fused cores, methods of distinguishing, VII, 193
Fuson shale, V, 261
Fusselman limestone, IV, 104

G

Gaines oil pool, V, 358
Galloway, J. J., *methods of correlation by means of Foraminifera, X, 562*
Gantz sand, VI, 449
Garber oil field, II, 54; V, 95, 568, VI, 40
Garber sandstones, Oklahoma, X, 794
Gardescu, I. I., and Johnson, Roswell H., *the effect of stratigraphic variation on folding, V, 481*
Gardescu, I. I., and Ruedemann, Paul, *estimation of reserves of natural gas wells by relationship of production to closed-in pressure, VI, 444*
Gardner, James Henry, foreign members, VIII, 690
president's report for 1924, IX, 690
rock distortion on local structures in the oil fields of Oklahoma, VI, 228
the vertical component in local folding, I, 105
volcanic ash in North Canadian Valley, Oklahoma, VII, 576
Garfield anticline, VI, 148
Garita area, V, 601
Garrett, Daniel Loy, *stratigraphy and structure of northeastern New Mexico, IV, 73*
Garrison formation, I, 113; II, 74
Gartland sand, V, 368
Gas, Big Hill dome, Texas, IX, 725
Buda limestone, V, 20
Falfurrias, IX, 580
Farnham, Utah, VII, 293
Jennings oil field, Louisiana, X, 85
Lytton Springs field, Texas, X, 969
near Fort Collins, Colorado, VIII, 79
Pennsylvania, V, 357
Pine Island, Louisiana, IX, 171
Pine Prairie dome, Louisiana, IX, 753
Poteau field, IV, 34
production, Texas Panhandle, X, 744
review of new publication on gas in Kentucky, VI, 261
Santa Fe Springs field, California, VIII, 180
south Texas domes, IX, 575
Texas Panhandle, bibliography, footnotes, X, 733–40
Gas and oil in Bayou Bouillon dome, Louisiana, IX, 1289
in Hockley dome, Texas, IX, 1052
near Edna, Jackson County, Texas, X, 905
prospects of New Zealand, X, 1227
Spring Hill-Sarepta field, VII, 550
Stratton Ridge, Texas, IX, 30
Sulphur dome, IX, 487
Welsh oil field, Louisiana, IX, 474
Gas field, Monroe, Louisiana, VII, 565
Spring Hill-Sarepta, Webster and Bossier parishes, Louisiana, VII, 546
Gas fields, Louisiana, VI, 251
natural, of Transylvania, Roumania, notes on, VIII, 202
Gas mounds on Gulf Coast, I, 41, 63
Gas pressure and oil recovery, VII, 609
Gas production from the Spring Hill Sarepta gas field, Webster and Bossier parishes, Louisiana, VII, 555
Gas propulsion theory of oil migration, VII, 223
Gas reserves, equal pound loss method of estimating, X, 901
Gas sand, the Kirk, in the Graham District, Oklahoma, IX, 1024
Gas seepages in Alabama, IV, 267
in Panama, IV, 267
Gas valuation of properties, III, 378; VI, 444

Gas well in Jim Hogg County, Texas, VIII, 676
Gas wells, open-flow gauge and the working capacity of, IX, 217
Gases, of Transylvania, analyses, VIII, 210
unusual natural, discussion by Walter B. Lang, X, 1176
Gasoline and engine distillate, California, VIII, 566
Gasper limestone, Kentucky, VI, 25
Gas-pressure decline curves for a flowing oil well, IX, 196
Gavin, Martin J., review of his "oil shale, an historical, technical and economic study," VIII, 529
Gaylord, E. G., and Hanna, G. D., *organic shales in the southern end of the San Joaquin Valley, California, IX, 228*
Gaylord, E. G., and Taff, J. A., *geological organization of an oil company, VIII, 651*
Gebel Zeit oil field, Egypt, X, 434
Geis, W. H., *origin of light oils in the Rocky Mountain region, VII, 488*
Gemsah oil field, Egypt, X, 436
General Petroleum Corporation dome, VII, 145
Geography and geology of Western Australia, X, 1119, 1137
Geophysical methods, in the Gulf Coastal plain, IX, 669
oil finding by, review, X, 200
Geophysical surveys as aids to the geologist, IX, 165
Geophysics at Colorado School of Mines, X, 1305
Geologic explorations, airplanes for, in inaccessible regions, IX, 947
Geologic features in South Dakota, the bearing of, upon oil possibilities, VII, 507
Geologic formations of a part of southern California and their correlation, VII, 411
Geologic history, Damon Mound, IX, 528
Gulf Coastal Plain, X, 9
of the Panuco River Valley and its relation to the origin and accumulation of oil in Mexico, X, 667
Geologic map of northeastern Texas and southeastern Arkansas, IX, opp. 1158
of part of the Transylvanian basin, IX, 1176
of Texas and Louisiana, showing location of salt domes, IX, opp. 1231
of Trinidad, IX, opp. 1000
Geologic methods, advancement in, VII, 610
Geologic provinces, China, X, 1076
Geologic section, Big Lake oil field, Texas, X, 368
Luling field, Texas, VIII, 777
Geologic sketch map of Roumania showing location of salt domes, IX, 1238
Geologic structure of Desert Basin, Western Australia, X, 1132
of Northwest Basin, Western Australia, X, 1144
of the Dakota sandstone in western Kansas, IX, 1019
of Transylvania, VIII, 205
Geological columns, comparative, China, X, 1079
Geological Congress, announcements of the Fourteenth International, X, 201
Fourteenth International, IX, 707
Geological engineering, VI, 377
Geological features illustrated by models, VIII, 89
Geological map of Indiana, IX, 320
of Minnesota, X, 193
of Oklahoma, VIII, 240; IX, 920
of the oil fields in North (Russian) Sakhalin, X, 1152
Geological organization of an oil company, VIII, 651
Geological Society of America, annual meeting, 1924, IX, 183
Cordilleran Branch of the, annual meeting of, X, 449
meeting, 1925, X, 100
meeting, 1926, X, 534
Geological structures of the Carpathian region, IX, 1166
Geological time scale, Indiana, IX, 321
Geologist, instruments for, VI, 50
opportunities of, IV, 5
paper on professional ethics, VI, 392
review of new handbook for, VI, 260
Geologists, alibi for, IX, 1295
Geologists-International petroleum show, VIII, 685
Geology, Avery Island, Louisiana, IX, 765
Baldwin Hills, California, X, 508
Barbers Hill, Texas, IX, 963
Bayou Bouillon dome, Louisiana, IX, 1289

Belle Isle dome, Louisiana, IX, 785
Bellevue oil field, Louisiana, VII, 647
bibliography, Los Angeles Basin, California, footnotes, X, 753–64
Big Hill dome, Texas, IX, 591, 714
Big Lake oil fields, subsurface, X, 365
Bistineau dome, Louisiana, X, 253
Blue Ridge dome, Texas, IX, 306
Brooks dome, Texas, X, 30
Bryan Mound, Texas, IX, 616
Butler dome, Texas, X, 57
Cedar Creek dome, Louisiana, X, 284
Coochie Brake, Louisiana, X, 289
Cote Blanche dome, Louisiana, IX, 781
Damon Mound, Texas, IX, 521
Drake's dome, Louisiana, X, 273
East Coast, New Zealand, X, 1247
economic and general, VI, 157
Edgerly oil field, Louisiana, IX, 499
El Dorado field, Arkansas, VII, 354
Grand and San Juan counties, Utah, bibliography, footnotes, VII, 385–95
Grand Saline dome, Texas, X, 20
Gulf Coastal Plain, VIII, 21
Hockley dome, IX, 1036
interior domes of Louisiana, X, 223
interior salt domes of Texas and Louisiana, X, 6
Jefferson Island, Louisiana, IX, 760
Jennings dome, Louisiana, X, 77
Keechi dome, Texas, X, 38
Kevin-Sunburst field, Montana, VII, 266
King's dome, Louisiana, X, 257
Los Angeles Basin, California, a contribution to the, X, 753
Lost Soldier district, Wyoming, VII, 136
Luling Field, Texas, IX, 636, 641, 647
Lytton Springs oil field, Texas, X, 955
Monroe field, Louisiana, VII, 566
New Zealand, X, 1231
oil, general paper on advancement of science, VI, 509, 516, 545
Palestine dome, Texas, X, 48
Permian, of Kansas, X, 144
of Oklahoma, X, 144
of Texas, X, 144
Pine Prairie dome, Louisiana, IX, 744
Price's dome, Louisiana, X, 266
Prothro dome, Louisiana, X, 247
Rainbow Bend field, Kansas, IX, 975
Rayburn's dome, Louisiana, X, 262, 264
Roumanian oil fields, IX, 146
Sal del Rey and Sal Vieja, IX, 584
Saratoga field, IX, 266
schedule for description of sedimentary rocks, VI, 254
south Texas domes, IX, 546
Southern California, bibliography, footnotes, VII, 411–20
Steen dome, Texas, X, 26
Stonewall quadrangle, Oklahoma, IX, 355
Stratton Ridge dome, Texas, IX, 5
subsurface, of Wilson County, Kansas, IX, 1207
Sulphur dome, IX, 483
surface, Winnfield salt dome, Louisiana, X, 279
Taranaki district, New Zealand, X, 1239
Thomas field, Oklahoma, X, 650
Trinidad, IX, 1001
Vacherie dome, Louisiana, X, 239
Ventura County, California, VIII, 791
Weeks Island, Louisiana, IX, 776
Westland district, New Zealand, X, 1236
Geology and oil fields of Archer County, Texas, X, 457
Geology and oil resources of Trinidad, British West Indies, IX, 1000
Geology and structure of portions of Grand and San Juan Counties, Utah, VII, 384
Geology of the oil fields in North (Russian) Sakhalin, X, 1150
Geology of the salt domes in the Carpathian region of Roumania, IX, 1165
Geology of the Tertiary and Quaternary periods in the northwest part of Peru, review, VII, 443
Georgetown-Edwards limestone, III, 301; V, 18; VI, 476
Georgia, oil and gas seepages, VI, 398
Geosyncline of Llano Estacado, V, 14
Geothermal gradient, tables for all oil fields, V, 242
German and Roumanian salt domes, American salt dome problems in the light of, IX, 1227
German Geological Survey, maps showing salt domes, IX, 1268
German potash salt deposits, stratigraphic section, IX, 574
German salt anticlines, formation of, IX, 437
German salt deposits, stratigraphic sections, IX, 1248
tectonic forms of, IX, 425
German salt domes, IX, 1247
Asse type, IX, 1250
bearing on problems of American salt domes, IX, 1261

bibliography, IX, 1267
of maps, IX, 1268
cap rock, IX, 1257
cause of upthrust, IX, 1260
Hannoverian type, IX, 1250
Leine type, IX, 1250
origin of, IX, 561
relations to setting, IX, 1258
Stassfurt type, IX, 1250
types of, IX, 563
German salt series, stratigraphic section in, IX, 562
German Zechstein salt, IX, 561
Germany, the upthrust of salt masses of, IX, 417
bibliography, IX, 438
unconformities in, IX, 421, 431
Wietze oil field, X, 413
Gester, G. C., *observations relating to the origin and accumulation of oil in California, X, 892*
Gester, S. H., *Huntington Beach oil field, Orange County, California, VIII, 41*
Gilliland oil field, V, 137
Gilluly, James, and Heald, K. C., review of their "stratigraphy of the El Dorado oil field, Arkansas, as determined by drill cuttings," VII, 198
Girty, George H., determination of Permian fossils, X, 825, 838
the Bend formation and its correlation, III, 71
Girty, George H., and Moore, Raymond Cecil, *the age of the Bend series, III, 418*
Girty, George H., and Roundy, P. V., *Glenn formation of Oklahoma, notes on, with consideration of new paleontologic evidence, VII, 331*
Gypsum, structure in, Harvey County, Kansas, IX, 1062
Gladys Belle oil pool, VI, 422
Glass Mountain formation, II, 74
Glass Mountains, Texas, Comanchean, X, 878
faults, X, 879
folds, X, 880
geologic structure, X, 877
Permian, X, 877
Glauconite marls, V, 417
Glauconite sandstones, V, 375
Glen Mary oil field, V, 168, 647
Glen Rose formation, III, 127, 168, 302, 304; V, 7, 309, 380; VI, 196
Glenn formation, V, 37, 103, 175, 556; *VI, 5*, 368, 400
Ardmore quadrangle, fauna of, VII, 342
new paleontologic evidence, VII, 331
Oklahoma, X, 143
Glenn, Leonidas Chalmers, *oil development and prospects in Tennessee, V, 168*
review of his "oil development and prospects in Tennessee," V, 100
some paleontological evidence on the age of the oil-bearing horizon at Burkburnett, Texas, V, 154, 324
Glenn oil pool, V, 120, 131, 152, 290, 401
Glenn sand, III, 264, 266, 273; V, 129, 290, 400; VI, 318
Glenn syncline, VI, 20
Glenrose limestone, Texas, X, 770
Glorieta formation, VI, 224
Godula sandstone, Europe, VI, 526
Golden thrust fault, X, 109
Goldman, Marcus Isaac, *"black shale" formation in and about Chesapeake Bay, VIII, 195*
petrography of salt dome cap rock, IX, 42
review of Henry B. Milner's "an introduction to sedimentary petrography," VII, 194
review of Bernard W. Holman and St. J. R. C. Shepherd's "dielectric mineral separation, notes on laboratory work," VIII, 682
review of H. S. Hatfield's "dielectric separation, a new method for the treatment of ores," VIII, 682
review of his "lithologic subsurface correlation in the 'Bend Series' of north-central Texas," V, 99
the binocular microscope, use of, IX, 175
Goldman, Marcus I., and Merwin, H. E., color chart of the committee on sedimentation of the National Research Council, IX, 1018
Goldston, Jr., Walter Leon, *differentiation and structure of the Glenn formation, VI, 5*
review of his "differentiation and structure of the Glenn formation," V, 103
Goodland limestone, II, 62; V, 309; VI, 181
Goodrich, Harold Beach, correspondence from (on paper by D. W. Ohern), III, 443

review of Roy Parmelee McLaughlin's "oil land development and valuation," VI, 56
the past and the future (petroleum geology), V, 445
Goodrich, R. H., and Barton, Donald C., *Jennings oil field, Acadia Parish, Louisiana, X, 72*
Goodridge formation, VI, 47, 205, 207, 211, 224, 246
Goose Creek oil field, Texas, II, 29; III, 88, 320; V, 333; *IX, 286*
analysis of crude oil, IX, 295
analysis of waters, III, 320
chlorine content in waters, IX, 41
curve of annual production, IX, 290
drilling methods, IX, 295
occurrence of sulphur waters, IX, 36
oil at, IX, 294
production, IX, 295
stratigraphy, IX, 290
structure, IX, 292
wells, IX, 292
Gordon formation, III, 138
Gordon sand, VI, 449
Gore, F. D., *oil shale in Santa Barbara County, California, VIII, 459*
Gose oil pool, V, 418
Gotebo oil field, III, 257; V, 568; VI, 422
Goudkoff, Paul P., *Microlithology and micropaleontology of the oil-bearing formations in the Sunset-Midway and Kern River oil fields, X, 482*
Gould, Charles Newton, *a new classification of the Permian redbeds of southwestern Oklahoma, VIII, 322*
correlation of the Permian of Kansas, Oklahoma and northern Texas, X, 144
discovery of petroleum in the Texas Panhandle, VII, 237
geological work in the southwest, I, 20
Oklahoma Survey, seventh field conference, 1926, X, 1306
preliminary notes on the geology and structure of the Amarillo region, IV, 269
review of Oklahoma Geological Survey, X, 1311
Gould, Charles N., Aurin, F. L., and Officer, H. G., *the subdivision of the Enid formation, X, 786*
Graford formation, III, 138
Graham field, Oklahoma, VIII, 593
stratigraphy, VIII, 602
the Kirk gas sand in the, IX, 1024
Graham formation, V, 324
Graham oil pool, V, 173
Grahamite mine, V, 628
Grand Canyon, Permian strata in, X, 824
Grand Saline dome, Texas, IX, 839, 842; X, 36
geology, X, 20
topography, X, 19
Grandfield district, VI, 38
Graneros shale, IV, 76; V, 198; VI, 72
Granite, California, VI, 307
Kansas, I, 111; II, 98; *IV, 255;* V, 69, 141, 146, 153, 279, 330, 397, 509, 580; VI, 427
Nebraska, II, 100
New Mexico, IV, 100; *V, 163,* 330, 605; VI, 89
Oklahoma, I, 125; IV, 174; V, 34, 121, 128, 421; VI, opp. 6
relation to oil production in Kansas, IV, 255
South Africa, VI, 369
Texas, IV, 121; V, 564
Granite oil pool, VI, 88, 422
Granite Ridge, Kansas, X, 95
Mississippi lime west of the, X, 96
Nebraska-Kansas, X, 295
Granite wells in the northern Mid-Continent region, IX, 351
Granitic rocks, Los Angeles Basin, California, X, 755
Graphic methods, block diagrams and other, used in geology and geography, review, IX, 918
Graphical integration, use in determination of formation thicknesses, IX, 451
Grass Creek oil field, IV, 37; V, 195, 328
review of publication on, VI, 389
Gravity of Jennings crude oil, distribution with depth, X, 92
Gravity of oil, Graham field, Oklahoma, VIII, 611
Gray lime, Texas, X, 462
Great Britain, review of publication on resources, VI, 391
Greeley gypsum, II, 75
Green River basin, Colorado, Utah, and Wyoming, VIII, 302
Green River formation, IV, 62, 197; V, 207
and its oil shale, origin of, IX, 247
bibliography, footnotes, IX, 247–58
origin of, VIII, 662
Green River shale, waters from, IX, 171

Greene, Frank Cook, *a contribution to the geology of eastern Osage County, II, 118*
are there "red beds" of Chester age in the Mid-Continent region? VII, 696
discussion of geology of the Stonewall quadrangle, Oklahoma, IX, 355
Geologists' International petroleum show, VIII, 685
granite wells in the northern Mid-Continent region, IX, 351
review of his "origin of oil in northern Mid-Continent," VII, 454
Greene, Frank Cook, and White, Luther, *correlation of the "Wilcox" sand of the Okmulgee district with the Osage, Oklahoma, V, 399*
Greenhorn limestone, III, 358; IV, 76, 98; VI, 72, 551
Greer formation, I, 103; II, 74, 114; III, 170, 268; IV, 270
Greybull sand, V, 196
Gruner, John W., algae believed to be Archean, review by K. C. Heald, VII, 302
Guernsey formation, V, 189
Gulf Coast and Roumania, comparison of salt structures, IX, 155
Gulf Coast crude oil, V, 335, 683
development in 1917, II, 34
fields, V, 684
stratigraphy, I, 35
waters, III, 310
Gulf Coast of Texas and Louisiana, occurrence of sulphur waters in, and their significance in locating new domes, IX, 35
Gulf Coast oil fields, X, 77
map of, IX, opp. 1231
Gulf Coast salt dome, cap rock, IX, 601
Gulf Coastal Plain, geologic history, X, 9
geology of, VIII, 21
geophysical methods in the, IX, 669
salt domes of, X, 1
stratigraphy, VIII, 21
structure, VIII, 25
unconformities in, VII, 380; VIII, 24–26
Gulf of Paria, structure, VI, 474
Gumbos, correlating, IX, 906
Gunsight formation, III, 138
Gym limestone, New Mexico, X, 847
Gypsiferous formation, Utah, VI, 204, 219
Gypsum, in salt stocks in Germany, IX, 426
Gypsum in cap rock, IX, 43, 1229
Gypsum-anhydrite cap, IX, 42

H

Habighorst-Höfer salt dome, IX, 1262
Hager, Dorsey, discussion of his "oil possibilities of the Holbrook area in northeast Arizona," VI, 47
Hager, D. S., and Brown, I. O., *Minerva oil field, Milam County, Texas, VIII, 632*
Hager, D. S., and Stiles, E., *the Blue Ridge salt dome, Fort Bend County, Texas, IX, 304*
Hager, Lee, theory of origin of salt domes, IX, 844
Hager well, Section 28 salt dome, IX, 1291
Hall, James, theory of folding, IX, 422
Hamilton, Henry L., memorial of, by W. R. Hamilton, X, 358
Hamilton, Walter Raleigh, *development of petroleum geology in California, V, 457*
memorial of Henry L. Hamilton, X, 358
Hamilton dome, IV, 37; V, 61, 191
Hamilton formation, IV, 45; V, 95
Hamilton Switch oil pool, V, 290
Hammer, A. A., and Lloyd, A. M., *the quadrant formation of east-central Montana, X, 986*
Upper Cretaceous sedimentation and diastrophism in Montana, IX, 886
Hammill, Chester Armstrong, *the Cretaceous of northwestern Louisiana, V, 298*
Hance, James Harold, development in Illinois oil fields during the year 1920, V, 336
drilling in western Canada, VII, 82
review of Andre Surney De Bonnier's "the Roumania petroleum industry during the first quarter of 1922," VII, 303
review of automatic bailer for oil recovery, Engineering and Mining Journal-Press, VII, 84
review of Charles K. Leith's "the economic aspects of geology," VI, 157

review of Cullen W. Parmelee's "fuller's earth deposit at Olmstead, Ill.," VI, 155
review of drilling in Queensland, VII, 196
review of Freeman Ward and Roy A. Wilson's "oil possibilities in western Dewey County, South Dakota," VII, 303
review of H. A. Wheeler's "influence of faulting in the Illinois fields," V, 107
review of J. H. Highsmith's "appraisal of oil production," VI, 483
review of John R. Reeves' "the New Albany shale of Indiana," VII, 85
review of John R. Reeves' "oil shales of Indiana," V, 108
review of Johnson, Huntley and Somers', "the business of oil production," VII, 453
review of Louis Aubrey Mylius' "review of Illinois for 1920," V, 107
review of M. E. Johnson's "new oil pool at Tidioute and gas pools near Corry and Meadville, Pennsylvania," VII, 304
review of Orren W. Skirvin's "experimental study of the invasion of oil into a water-wet sand," VII, 85
review of Robert Wesley Brown's "valuation of oil and gas lands," IX, 356
review of "the world race for oil," VII, 303
review of U. S. Bureau of Mines' "supervision of public oil lands," VII, 196
review of Virgil R. Kirkham's "petroleum possibilities in southeastern Idaho," VII, 197
review of W. N. Logan's "petroleum and natural gas in Indiana," V, 105
Hancock sand, V, 293; VI, 464
Hanna, G. D., *age and correlation of the Kreyenhagen shale in California, IX, 990*
Foraminifera, smaller, for stratigraphy, VIII, 246
Hanna, G. D., and Gaylord, E. G., *organic shales in the southern end of the San Joaquin Valley, California, IX, 228*
Hanna, G. D., and Taff, A. J., age and correlation of the Moreno shale, X, 812
Hanna, Marcus A., interesting volcanic ash from Calcasieu Parish, Louisiana, X, 93
Hannoverian type of salt structures, IX, 1250
Hannoverian type salt-dome ridge, IX, 1254
Hanover district, IX, 1249
Harper sandstone, II, 74, 77
Harris, G. D., theory of origin of salt domes, IX, 846
Harrison, T. S., *oil accumulation in the Rocky Mountain region, VII, 661*
porphyry at Amarillo, VII, 434
Hart limestone in Oklahoma, IX, 984
Hartley, Burton, *certain relations between production and structure in northeastern Osage County, Okla., VI, 464*
the oil fields of Mexico, V, 504
Hartnagel, C. A., and Russell, W. L., *the oil fields of New York State, IX, 798*
Hartshorne sandstone, III, 148, 268; V, 549; VI, 13
Harz area, Germany, salt beds, IX, 424
Haseman, J. D., *the humic acid origin of asphalt, V, 75*
Hatchetigbee anticline, VI, 195
Hatfield, H. S., review of his "dielectric separation, a new method for the treatment of ores," VIII, 682
Hauerite in a salt-dome cap rock, X, 531
Hayes, C. W., and Kennedy, W., theory of origin of salt domes, IX, 844
Haynes, Winthrop Perrin, *geological work in the Carpathians, VI, 523*
Meeting of the Petroleum Section of the International Geological Congress, VII, 187
Haynes, Winthrop Perrin, and Moore, Raymond Cecil, *an outcrop of basic igneous rock in Kansas, IV, 183*
Haynesville oil field, Louisiana, IV, 133; V, 341, 629, 690; VI, 53, 142, 160, 188, 192, 250, 252, 263, 350, 371, 474, 477, 479, 556
Haystack gypsum, II, 114
Hayti, review of publication on, VI, 386
Hazard rotary under-reamer, VIII, 143
Heald, Kenneth Conrad, annual meeting of the Cordilleran Branch of the Geological Society of America, X, 449
contribution to stratigraphy of western Kansas, VIII, 242
discussion of Max Ball's "the relative ages of the major and minor folding

and oil accumulation in Wyoming," V, 408
is it injurious to close in an oil well? VI, 379
Kevin-Sunburst oil field, Montana, X, 197
meeting of the Geological Society of America, X, 100
methods of detecting small quantities of petroleum, V, 620
National Research Council and oil geology, VII, 467
oil geology and science, VIII, 473
oil in Idaho? VI, 472
oil in middle Ordovician in Indiana, VI, 374
oil showing in granite in South Africa explained, VI, 369
review of Armin Karl Lobeck's "block diagrams and other graphic methods used in geology and geography," IX, 918
review of C. L. Dake and J. S. Brown's "interpretation of topographic and geologic maps," X, 906
review of Charles A. Cheney's "salt domes of northeastern Texas," VI, 58
review of D. N. Collingwood's "further considerations of prospect for oil in the Decatur area," IX, 359
review of David T. Day's "handbook of the petroleum industry," VII, 588
review of Francis M. Van Tuyl's "elements of petroleum geology," IX, 362
review of Frank C. Greene's "origin of oil, in northern Mid-Continent," VII, 454
review of Freeman Ward's "structure in north Haakon County, South Dakota," X, 533
review of Henry B. Milner's "the study and correlation of sediments by petrographic methods," VIII, 97
review of John W. Gruner's "algae believed to be Archean," VII, 302
review of Robert B. Bossler's "oil fields rejuvenated," VII, 304
review of Roy Noble Ferguson's "oil and gas prospects in the vicinity of Button-Willow, Kern County, California," VI, 57
review of William L. Russell's "the possibility of oil in western Ziebach County," X, 638
sandstone inclusion in salt in mine on Avery's Island, VIII, 674
suggestions for writing reviews, VII, 88
the oil-bearing horizons of Wyoming, V, 186
Heald, Kenneth Conrad, and Rubey, W. W., El Dorado oil field in Arkansas not on an anticline, VI, 358
Healdton oil field, III, 121, 257, 444; *IV, 47*, 121; *V*, 32, 48, 173, 326, 344, *469*, 627; VI, 23, 476
Heaving shale, IX, 526
Heavy minerals, correlative value of the, VIII, 158
in California oil-field sediments, VIII, 166
Heck oil pool, V, 82
Hedberg, Hollis D., *the effect of gravitational compaction on the structure of sedimentary rocks, X, 1035*
Heiland, C. A., *construction, theory, and application of magnetic field balances, X, 1189*
Schweydar-Bamberg types of Eötvös torsion balance, X, 1201
Helvetian formation, Europe, VI, 526
Henderson, Junius, *origin of the Green River formation, VIII, 662*
Hendon, Bryan, memorial, X, 1188
Hendon, Claude, memorial of Bryan Hendon, X, 1188
Henley, A. S., *Big Hill salt dome, Jefferson County, Texas, IX, 590*
Hennessey shale, Oklahoma, X, 795
Henniger, W. F., *occurrence of sulphur waters in the Gulf Coast of Texas and Louisiana, and their significance in locating new domes, IX, 35*
Henning, John Lovejoy, *sulphur mining in Texas, III, 242*
Henry "pay" sand, V, 420
Henryetta oil field, Oklahoma, V, 154, 284, 402; *VII, 50*
bibliography, footnotes, VII, 50–56
Henryetta series, V, 564, 580
Henryhouse shale, V, 34
Hercynian folding, effect of, IX, 1252
Hercynian fractures, IX, 1258
Hercynian lines of salt domes, IX, 1259
Hermit shale, Arizona, X, 828
Heroy, William E., advertising manager's report for 1924, IX, 700
Herrington limestone, II, 75; IV, 89; V, 568
Hertha limestone, V, 548

Hess, Frank L., review of William Ramsay's "the significance of nickel in petroleum," VIII, 832
Hewitt oil field, IV, 279; V, 32, 173, 326, 344, 454
Hickman sand, Burbank field, Oklahoma, VIII, 766
Hickory sandstone, III, 128, 175, 189; V, 380
Hieroglyphic beds, Europe, VI, 526
High Island oil field, I, 46; III, 87
High Plains sediment, V, 596
Highsmith, J. H., review of his "appraisal of oil properties," VI, 483
Hildesheimer Wald dome, IX, 1254
Hill, Robert T., theory of the formation of salt domes, IX, 843
Hilliard shale, V, 202
Hinds, Henry, unconformities in the Pennsylvanian, X, 1303
Hintze, F. F., *oil accumulation in relation to periods of folding, VII, 58*
review of A. E. Fath and G. F. Moulton's "oil and gas field of the Lost Soldier-Ferris district, Wyoming," IX, 363
Hockley dome, Texas, I, 45, 82; VII, 297; IX, 1031
bibliography, IX, 1060
Foraminifera, IX, 1048
fossils, IX, 1048
geology, IX, 1036
physiography, IX, 1034
salt core, IX, 1039
stratigraphy, IX, 1045
sulphur, IX, 36, 1060
topographic map, IX, 1037
wells, IX, 1056
Hodson, Floyd and Helen, short cuts in picking out and sectioning Foraminifera, X, 1173
Höfer, Hans von, memorial, VIII, 534
Höfer-Heimhalt, Hans, das Erdöl und seine Verwandten, review, VII, 584
Hoffman, Malvin G., volcanic tuffs in central Oklahoma, IX, 344
Hogshooter gas field, III, 212
Hogshooter lime, II, 120; III, 270; V, 548
Holbrook dome, Supai formation, X, 825
Holdenville limestone, I, 135
Holdenville shale, III, 261; V, 34, 283, 400; VI, 13
Holland, V, 27
Holman, Bernard W., and Shepherd, St. J. R. C., review of their "dielectric mineral separation: notes on laboratory work," VIII, 682
Holman, E., and Campbell, R. B., *Bellevue oil field, Louisiana, VII, 645*
Homer oil field, IV, 130; V, 629; VI, 142, 186, 192, 195, 247, 252, 365, 477, 556
Horse Creek fold, V, 59
Hoskins Mound oil field, I, 44, 80
Hosterman, J. F., *the Tonkawa oil and gas field, Oklahoma, VIII, 284*
Houma oil field, II, 20
Howe, Henry V., "the Many Salt dome," Sabine Parish, Louisiana, IX, 170
Howe, James V., memorial by J. H. Jenkins, X, 1188
Howell, Jesse V., *notes on the pre-Permian Paleozoics of the Wichita Mountain area, VI, 413*
Hoxbar formation, VI, opp. 6, 7
Huancame region, V, 596
Hubbard, W. E., and Thompson, W. C., *geology and oil fields of Archer County, Texas, X, 457*
Hudson, F. S., the South Mountain oil field, VIII, 810
Hudson, F. S., and Taliaferro, N. L., *an interesting example of a survey of a deep bore hole, X, 775*
calcium chloride waters from certain oil fields in Ventura County, California, IX, 1071
Hudson, F. S., Taliaferro, N. L., and Craddock, W. N., *the oil fields of Ventura County, California, VIII, 789*
Hueco escarpment, V, 331
Hughes, Richard, *granite wells in central Oklahoma, V, 421*
International Petroleum Exposition, VIII, 102
Hull, Joseph Poyer Deyo, discovery of Nigger Creek oil pool, Limestone County, Texas, X, 997
discussion of U. S. G. S. Press Bulletin, "El Dorado oil field in Arkansas not on an anticline," VI, 479
discussion of U. S. G. S. Press Bulletin, "wildcat wells in south-central Arkansas stop short of deep oil sands," VI, 477

guide notes on the Midway in southwestern Arkansas, IX, 167
notes on the stratigraphy of producing sands in northern Louisiana and southern Arkansas, VII, 362
plans for compilation of Louisiana-Arkansas geology, VIII, 350
Prothro salt dome, Bienville Parish, Louisiana, IX, 904
review of James Gilluly and K. C. Heald's "stratigraphy of the El Dorado oil field, Arkansas, as determined by drill cuttings," VII, 198
the Belleville pool, Louisiana, VI, 247
the Haynesville pool, V, 629
Webster Parish gas fields, Louisiana, VI, 251

Hull, Joseph Poyer Deyo, and Spooner, William Calvin, *a review of oil and gas pools in north Louisiana territory, VI, 179, 259*

Hull oil field, V, 333

Humble oil field, I, 60, 76; III, 87
analysis of waters, III, 321
well operations, I, 76

Hummel, Carl Bernard, memorial, VII, 715

Huntington Beach oil field, California, V, 458, 624; VI, 303; *VIII,* 16, *41*
review of publication on, VI, 389

Huntley, Charles Stirling, memorial, X, 1322

Huntley, Louis Crow, a graphic model of the Tepetate-Chinampa pool in the Mexican fields, V, 677

Huntley, L. G., geological features illustrated by models, VIII, 89
the Sabine Uplift, VII, 179

Hunton formation, Oklahoma, V, 122; VI, 6, 161, 423; X, 141

Hurghada oil field, Egypt, X, 438

Huronian age, V, 375

Hydraulic theory of oil migration and accumulation by means of the downward circulation of water, IX, 1143

Hydraulic theory of oil migration and accumulation, further notes on, VII, 213

Hydrocarbons, direct synthesis of higher from lower, VIII, 830

Hydrogen sulphide, bleaching action on ferric oxide, X, 310

I

Iatan limestone, V, 65

Ickes, E. L., discussion of Lyndon L. Foley's "origin of the faults in Creek and Osage counties, Oklahoma," X, 727
the determination of formation thicknesses by the method of graphical integration, IX, 451

Icthyol, review of publication on industry in England, VI, 384

Idaho, Green River formation, VIII, 663
oil in, VI, 472
oil reserves, VI, 44
petroleum possibilities in southeastern, review, VII, 197
thrust faults, X, 106

Identification of formations in drilling, VIII, 645

Igneous intrusions, oil in cavities of, VII, 288

Igneous rocks, Belgian Congo, V, 670
Cuba, II, 144
diamond drilling in, V, 388
Kansas, IV, 183
Montana, V, 269; VI, 147
New Mexico, IV, 77
Oklahoma, V, 121
Texas, III, 84, 125; IV, 121; V, 92, *512,* 657

Illinois, geology of Waterloo area, V, 94
new Trenton oil field, IV, 43
oil and gas prospects in parts of Coles, Edgar, Clark, Champaign, and Douglas counties, V, 94
oil developments of 1922 in, VII, 78
oil-field waters, X, 1290
oil fields, V, 87, 94, 336; VI, 153
oil reserves, VI, 44
review of paper on new Wamac field, VI, 387
state security laws, IV, 169
sulphate-reducing bacteria from oil-field waters in, X, 1289

India, Permian in, IX, 1269
stratigraphy, IX, 1273

Indian red shale, V, 492

Indiana, geological map of, IX, 320
geological time scale, IX, 321
oil and gas in, V, 105
oil in Ordovician, VI, 374

oil possibilities, IX, 324
oil reserves, VI, 44
review of paper on production, VI, 383
the New Albany shale of, review, VII, 85
the production of oil in, IX, 317

Inoceramus beds, Europe, VI, 526

Inoceramus formation, II, 81

Interior salt domes of Louisiana, X, 217
bibliography of, X, 290
stratigraphy, X, 225
wells drilled on the, X, 222

Interior salt domes of Texas and Louisiana, geology, X, 6
stratigraphy, X, 6
topography, X, 13

International Geological Congress, announcements of the Fourteenth, X, 201
meeting of the petroleum section of, VII, 187

International Petroleum Exposition, VIII, 102

Iowa, oil reserves, VI, 44

Irish sand, V, 406

Irma-Fabyan district, Alberta, VII, 154

Irvine oil field, Kentucky, VI, 36, 387

Irvine sand, IV, 307

Irwin, J. S., *faulting in the Rocky Mountain region, X, 105*
oil and gas possibilities of eastern Alberta, VII, 147

Isopachs, IX, 890

Istebna sandstone, Europe, VI, 526

Isthmus of Tehuantepec, salt domes, X, 1

J

Jackfork formation, III, 149, 263; V, 549, 679

Jacksboro formation, III, 138

Jackson clay, I, 35, 73, 155; III, 312; V, 224; VI, 180

Jackson Foraminifera, Texas, VIII, 443; X, 154

Jackson formation, Damon Mound, Texas, IX, 527
Hockley dome, Texas, IX, 1050
Texas, IX, 111

Jameson oil pool, V, 290

Jamna sandstone, Europe, VI, 526

Japan, oil prospecting on Sakhalin Island by, in 1919–25, X, 1163
review of publication on, VI, 260
the marine kerogen shales from the oil fields of, a contribution to the study of the origin of petroleum, review, VII, 83

Japanese archipelago, oil production in, IX, 1099

Java, V, 428

Jefferson Island, Louisiana, IX, 758
geology, IX, 760
paleontology, IX, 760
physiography, IX, 759
salt production, IX, 761

Jenkins, J. H., memorial of James V. Howe, X, 1188

Jenkins clay, II, 74

Jennings oil field, Louisiana, V, 120, 131, 333, 625; *X, 72*
fossils, X, 83
gas in, X, 85
geology, X, 77
oil in, X, 85, 86
physiography, X, 74
production, X, 87
structure, X, 80
temperature and gravity of oil, X, 89
wells, X, 79, 82, 84

Jensen, Joseph, *a study of the present California oil situation (1923), VIII, 1*

Jensen, Joseph, and Robertson, Glenn D., *new development problems and their solution in southern California oil fields, VIII, 135*

Jillson, Willard Rouse, *geological problems in the recovery of oil and gas in Kentucky, IV, 303*
review of his "preliminary report on the oil shales of Kentucky," V, 100, 522

Jim Hogg County, Texas, large gas well in, VIII, 676

John Wray dome, VII, 238

Johnson, Bertrand L., bibliography of foreign petroleum resources, VII, 593, 698; VIII, 251, 352, 678, 834

Johnson, Bertrand L., and Jones, L. M., bibliography of foreign petroleum resources, IX, 815, 911

Johnson, Bertrand L., Jones, L. M., and McShea, M. F., bibliography of foreign petroleum resources, IX, 368, 672

Johnson, Huntley, and Somers, review of their "the business of oil production," VII, 453

Johnson, M. E., review of his "new oil pool at Tidioute and gas pools near Corry and Meadville, Pennsylvania," VII, 304

Johnson, Roswell Hill, *decline curve methods, III, 421*
flowing wells in Pennsylvania, V, 88
oil reserve in Teapot dome, Wyoming, VIII, 101
the cementation process in sandstone, IV, 33
the distribution of underground salt water and its relation to the accumulation of oil and gas, II, 172
the time factor in the accumulation of oil and gas, V, 475

Johnson, Roswell Hill, and Foster, Alden Wrhen, barrel costs vs. well-day costs, IV, 299

Johnson, Roswell H., and Gardescu, I. I., *the effect of stratigraphic variation on folding, V, 481*

Johnson, Roswell H., and Morgan, L. C., *a critical examination of the equal pound loss method of estimating gas reserves, X, 901*

Jones, J. Claude, suggestive evidence on the origin of petroleum and oil shale, VII, 67

Jones, L. M., and Johnson, Bertrand L., bibliography of foreign petroleum resources, IX, 815, 911

Jones, L. M., Johnson, Bertrand L., and McShea, M. F., bibliography of foreign petroleum resources, IX, 368, 672

Jones, Richard A., *a reconnaissance study of the Salado Arch, Nuevo Leon, and Tamaulipas, Mexico, IX, 123*
large gas well in Jim Hogg County, Texas, VIII, 676
outcrop of surface oil sand in the Permian red beds of Coke County, West Texas, IX, 1215
relation of the Reynosa escarpment to the oil and gas fields of Webb and Zapata counties, VII, 532
subsurface Cretaceous section of southwest Bexar County, Texas, X, 768

Jordan dome, VI, 149

Juan Casiano oil pool, V, 506

Judith River formation, V, 204, 258; VI, 146

Jurassic, Argentina, X, 857
as a source of oil in western Cuba, VIII, 516
California, VI, 305
Canada, IV, 250
Cuba, II, 139
Desert Basin, Western Australia, X, 1129
Idaho, VI, 472
in German salt anticlines, IX, 430
Mexico, V, 9
Montana, IV, 313; V, 260; VI, 146; VII, 174
New Mexico, IV, 75; V, 167
Northwest Basin of Western Australia, X, 1143
Panuco River Valley, Mexico, X, 671
Rocky Mountain region, VII, 406
Texas, V, 14
Utah, VI, 215, 244
Wyoming, V, 193, 408; VIII, 515

K

K. M. A., oil field, V, 514

Kaibab limestone, VI, 47, 205, 210, 224, 226, 245
Arizona, X, 830

Kaisers Mound, V, 212

Kansas, age of producing horizon, Rice County, X, 197
Burkett-Seeley Pool, Greenwood County, VII, 482
production, VII, 487
structure, VII, 483
central, new data on the Comanchean strata of, X, 553
Comanchean fossils, X, 561
Comanchean in western, IX, 1105
crystalline rocks, II, 98
early Pennsylvanian deposits west of the Nemaha Granite Ridge, X, 205
eastern, shoestring oil pools, further observations on, X, 568
Enid formation, X, 786
fossils, Permian, X, 148
geologic structure of the Dakota sandstone in western, IX, 1019
geological conditions in central, II, 70
geology, Permian, X, 144
geology of Rainbow Bend field, IX, 975
granite ridge of, X, 95
historical geological progress, I, 25
igneous rock, IV, 183
limestone, V, 401

Mentor sandstone, X, 556
metamorphic rocks of Woodson County, V, 64
Mississippi lime west of the Granite Ridge, X, 96
Mississippian in, VIII, 445
Mississippian in Wilson County, IX, 1211
Nemaha Granite Ridge, early Pennsylvanian sediments west of the, discussion by A. R. Denison, X, 636
occurrence of Ordovician sediments in western, X, 634
oil reserves, VI, 44
Oklahoma and northern Texas; correlation of the Permian of, X, 144
origin of domes in central, IV, 89
Pennsylvanian in, VIII, 446
Permian, X, 786
properties of oils, VI, 370
Rainbow Bend field, IX, 974
production, IX, 978
relations of structure to production, VII, 75
review of publication, VI, 386
review of publication on old wells, VI, 391
Sheridan test, Ellsworth County, X, 199
shoestring sands of eastern, VII, 103
southeast, subsurface observations in, VIII, 445
Stillwater formation, X, 792
stratigraphy in southeast, bibliography, footnotes, VIII, 446–51
stratigraphy in western, VI, 549
structure, VIII, 448
Rainbow Bend field, IX, 976
structure in central, II, 85
subsurface geology of Wilson County, IX, 1207
subsurface structures of central and western, IX, 1061
tenth annual business meeting, American Association of Petroleum Geologists, Wichita, 1925, IX, 678
unconformities in, VI, 75, 183; VIII, 448, 451; IX, 814, 1063, 1209, 1210; X, 205, 214, 1303, 1304
well records in central, II, 90
Wellington formation, X, 793
western, contribution to stratigraphy of, VIII, 242
western, oil possibilities, VI, 69
Wichita, tenth annual business meeting, American Association of Petroleum Geologists, 1925, IX, 690
Windom limestone, X, 555
Kansas City formation, V, 509, 548, 578
Kansu, China, oil prospects in, X, 1114
Kay County, Okla., stratigraphy—oil fields, IV, 173
Keechi dome, Texas, I, 75; VI, 58, 329
fossils, X, 39
geology, X, 38
Midway Foraminifera, X, 40
structure, X, 44
topography, X, 36
Kelley, P. K., *the sulphur salt dome, Louisiana, IX, 479*
Kemp clay, VI, 331
Kendrick, Frank E., memorial of William Kennedy, X, 913
Kennedy, William, *Bryan Heights salt dome, Brazoria County, Texas, IX, 613*
coastal salt domes, I, 34
memorial, X, 913
Kennedy, W., and Hayes, C. W., theory of origin of salt domes, IX, 844
Kentucky, *development in 1917, II, 38*
eastern, structure maps, VIII, 153, 154, 155, 156
subsurface structure of, VIII, 152
gas, VI, 261
oil fields, II, 40
oil reserves, VI, 44
Pennsylvanian, VIII, 630
review of publication on oil and gas, VI, 262, 263, 264, 383, 387
review of publication on oil shale, V, 522; VI, 386
stratigraphy, structure, oil fields, II, 38; IV, 303
unconformity in, VIII, 627
Warren County, VI, 24
Kentucky and Tennessee, Mississippian, VIII, 627
Kentucky, northeastern Mississippi, and Tennessee, oil horizons of, VIII, 621
Kentucky-Tennessee line, oil developments along the, during 1923, VIII, 454
Keokuk formation, IV, 45; V, 122
Kern River and Sunset-Midway oil fields, microlithology and micropaleontology of the oil-bearing formations in the, X, 482
Kern River oil field, IV, 21; V, 178, 457; VI, 380
Kern River series, California, X, 492
Kerogen, IX, 180
physical properties, VIII, 308
solubility of, IX, 1139
Kerogen and its relation to the origin of oil, VIII, 301

Kerogen of oil shale, the effect of rock flowage on, IX, 158
Kerogen shales, X, 1017
Kerosene cut, California, VIII, 566
Kettle Creek oil pool, Kentucky-Tennessee, VIII, 456
Kettleman Hills oil field, VI, 57
Kevin-Sunburst field, Montana, VII, 263; X, 197
explained on hydraulic theory, VII, 217
geology, VII, 266
source of the oil, VII, 275
stratigraphy, VII, 266
structure, VII, 271
Kew, William S. W., California meeting of American Association of Petroleum Geologists, VII, 705
geologic formations of a part of southern California and their correlation, VII, 411
review of Lawrence Vander Leck's "unproved areas," VI, 481
review of the minor oil fields of Kern County, VIII, 832
Key horizons, beds of volcanic material as, IX, 341
Kiamitia clay, V, 298, 343
Kinderhook beds, V, 122
Kindle, E. M., review of W. H. Twenhofel's "bottom deposits of Lake Ontario," IX, 1121
Kingfisher formation, II, 74
King's dome, Louisiana, X, 256
cap rock, X, 259
geology, X, 257
structure, X, 259
topography, X, 257
wells, X, 257, 261
Kiowa shale, II, 73, 79; VI, 70, 551
Kirk, Charles Townsend, notes on Sequoyah County, Oklahoma, V, 503
significant features of western coal deposits, I, 148
Kirk gas sand in the Graham District, Oklahoma, IX, 1024
Kirkham, Virgil R., review of his "petroleum possibilities in southeastern Idaho," VII, 197
Kiser gypsum, II, 114
Kiskapoo limestone, III, 138
Kiskiminetas cannel coal, X, 871
Kite, William Casper, an outline for a type report on an oil field, I, 131
Klippen, IX, 1190
Kliwa sandstone, Europe, VI, 526
Klondike gold field, V, 524
Kniker, Hedwig T., Applin, Esther Richards, and Ellisor, Alva E., *subsurface stratigraphy of the coastal plain of Texas and Louisiana, IX, 79*
Knox, John Knox, *geology of New Mexico as an index to probable oil resources, IV, 95*
Knox dolomite, V, 170
Kobayashi, Giichiro, X, *geology of the oil fields in North (Russian) Sakhalin, X, 1150*
Koetei formation, Borneo, V, 417
Kootenai formation, IV, 250, 313; V, 253; VI, 116, 146
Kraemer oil field, VI, 303
Krampert, E. W., *oil fields of the Rawlins-Lost Soldier district, Wyoming, VII, 131*
oil strikes in Hanna Basin and Red Desert, Wyoming, VII, 575
Kraus, Edgar, *logging wells drilled by the rotary method, VIII, 641*
Kraus, M., theory concerning salt masses, IX, 151
Kreyenhagen shale, age and correlation of the, in California, IX, 990
California, bibliography, footnotes, IX, 990–98
Krosno beds, Europe, VI, 526

L

Labette shale, I, 135; II, 119; V, 293, 401
La Brea region, Peru, V, 594
Ladore shale, V, 295
Lafayette formation, Louisiana, IV, 130; VI, 180
Oklahoma, V, 141
Texas, V, 223
Lagarto, Gulf Coast, I, 36
Lahee, Frederic H., *Currie field, Navarro County, Texas, VII, 25*
discussion on red-bed bleaching, X, 636
field geology, review by Julian D. Sears, VII, 300
note on the origin of petroleum, VIII, 669
review of Anselmo Windhausen's "lineas generales de la constitucion geolo-

gica de la region situada al oeste del Golfo de San Juan," VIII, 684
review of R. A. Deustua's "oil in Peru," X, 98
review of W. H. Fordham's "oil finding by geophysical methods," X, 200
Sericitization and dolomitization compared with the fixed carbon ratio of coal as indices of metamorphism in oil-bearing formations, VII, 291
temperature of fluids in wells, VI, 547
the Wortham and Lake Richland faults, IX, 172
Lahee, F. H., and Pratt, Wallace E., *faulting and petroleum accumulation at Mexia, Texas, VII, 226*
Lake, Francis Wilbur, and Phelps, Robert William, review of their "petroleum engineering," IX, 1299
the application of the alignment chart to petroleum engineering, IX, 803
Lake Baikal, Siberia, ozocerite and naphtha on, IX, 811
Lake Ontario, bottom deposits of, review, IX, 1121
Lake Titicaca, map, V, 597
Lakeview gusher, V, 453
Lakota formation, IV, 38; V, 261
Lance Creek oil field, Wyoming, III, 358; IV, 37
review of publication on, VI, 385
Lance formation, V, 258; VI, 144
Montana, quartzite pebbles at the base of, IX, 344
Lander oil field, V, 191
Lane, Alfred C., importance of water analyses, VIII, 87
Lane, Laura Lee, and Deussen, Alexander, *Hockley salt dome, Harris County, Texas, IX, 1031*
Lang, Walter B., a soxhlet extractor for porosity determinations, X, 998
unusual natural gases, discussion, X, 1176
Lansing formation, V, 297, 509
Lapara, Gulf Coast, I, 36
Laplata sandstone, VI, 47
Laramie formation, IV, 109; VI, 204, 223
La Salle anticline, V, 311
Lateral compression, V, 482
Laurel Fork oil pool, V, 81
Laurel Ridge anticline, V, 368
Lawrence shale, V, 64
Lawton oil field, III, 257
Layton sand, II, 121; III, 259; V, 400; VI, 320
Lebo shale, VI, 144
Leck, Lawrence Vander, review of his "unproved areas," VI, 481
Lee, Wallace, and Lupton, Charles Thomas, *geology of the Cat Creek oil field, Fergus and Garfield counties, Montana, V, 252, 327*
Lee, Wallace, Lupton, Charles Thomas, and Van Burch, Lisle Reed, *oil possibilities of western Kansas, VI, 69*
Lee, Willis T., *concerning granite in wells in eastern New Mexico, V, 163, 329*
Leidecker sand, V, 290
Leine type of salt structures, IX, 1250
Leith, Charles Kenneth, experiments showing effects of rotational stresses, X, 296
review of his "the economic aspects of geology," VI, 157
Lenapah limestone, II, 122; V, 548; VI, 464
Lenapah sand, V, 293
Levantic, Europe, VI, 526
Lewis formation, IV, 109; VI, 204, 222
Ley, Henry A., age of producing horizon, Rice County, Kansas, X, 197
barometric leveling, X, 1305
granite ridge of Kansas, X, 95
Kirk gas sand in the Graham district, Oklahoma, IX, 1024
Mississippi lime west of the Granite Ridge in Kansas, X, 96
relation of quality of oil to structure at El Dorado, Arkansas, VII, 350
Sheridan test, Ellsworth County, Kansas, X, 199
subsurface observations in southeast Kansas, VIII, 445
Ligonier syncline, V, 83
Lima oil field, Ohio, VI, 381
Limestone, in cap rock, IX, 1229
Limestone, Pine Prairie dome, Louisiana, IX, 754
Lincoln marble, II, 81
Lineas generales de la constitucion geologica de la region situada al oeste del Golfo de San Juan, review, VIII, 684
Lissie gravel, IV, 130
Lithographic limestone, V, 376
Lithologic character of shale as an index of metamorphism, X, 625

Little lime, VI, 466
Little Lost Soldier dome, VII, 133, 143
Wyoming, faults, X, 120
Little Rocky Mountains, unconformities, VII, 7
Little Saline, Texas, X, 48
Llano Burnet uplift, V, 545, 564
Lloyd, A. M., and Hammer, A. A., *the quadrant formation of east-central Montana, X, 986*
Upper Cretaceous sedimentation and diastrophism in Montana, IX, 886
Lobeck, Armin Karl, review of his "block diagrams and other graphic methods used in geology and geography," IX, 918
Lobitos oil field, V, 591
Location of oil fields by radiometric surveying, VII, 290
Loco oil field, V, 32, 627; VI, 12
Loel, Walter, and Arnold, Ralph, *new oil fields of the Los Angeles Basin, California, VI, 303*
Logan, W. N., review of his "petroleum and natural gas in Indiana," V, 105
Logging wells drilled by the rotary method, VIII, 641
Logs of wells, review of paper on rock classification by drillers, VI, 390
Loma Blanca salt dome, I, 49
Long Beach oil field, California, VI, 303
map of subsurface contours, VIII, opp. 408
unconformities, VIII, 408
and its problems, VIII, 403
Longyear, Robert Davis, *diamond drills and diamond-drill equipment for oil structure investigation, X, 656*
the diamond drill in oil explorations, VI, 98
Loomis, Harve, age of the producing sand, Eldorado field, Arkansas, VI, 54
Burkett-Seeley Pool, Greenwood County, Kansas, VII, 482
occurrence of limestone in northeastern Garvin County, Oklahoma, VI, 54
Los Angeles Basin, California, a contribution to the geology of, X, 753
Cretaceous, X, 755
Fernando group, X, 759
geology, bibliography, footnotes, X, 753–64
granitic rocks, X, 755
Lower Miocene, X, 756
Miocene, fossils, X, 757
Monterey group, X, 756
oil horizons, X, 766
oil pools, X, 767
Pico formation, X, 760
Pleistocene, X, 761
Pliocene, X, 760
fossils, X, 761
production, X, 767
Saugus formation, X, 761
schist, X, 755
stratigraphy, X, 754
structure, X, 763
Tertiary rocks, X, 755
Vaqueros formation, X, 756
Los Angeles oil field, V, 181, 458; *VI, 303*
Los Naranjos oil field, V, 85, 506
Lost City limestone, II, 120; III, 260
Lost Hills oil field, V, 181, 459; VI, 57
Lost Soldier district, Wyoming, geology, VII, 136
structure, VII, 142
unconformities, VII, 576
Lost Soldier-Ferris district, Wyoming, oil and gas field of the, review, IX, 363
Louisiana, Acadia Parish, Jennings oil field, X, 72
Arkadelphia formation, X, 232
Avery Island, IX, 761
geology of, IX, 765
paleontology, IX, 772
physiography, IX, 763
salt production, IX, 773
Bayou Bouillon dome, St. Martin Parish, IX, 1283; geology of, IX, 1289
oil and gas in, IX, 1289
Belle Isle dome, IX, 783
explorations, IX, 789
geology, IX, 785
paleontology, IX, 790
physiography, IX, 784
salt, IX, 785
structure, IX, 790
Bellevue oil field, VII, 645
geology, VII, 647
structure, VII, 650
bentonite in the Upper Cretaceous of, VIII, 342
bibliography of interior salt domes of, X, 290
of Pine Prairie dome, IX, 755
of the Five Islands, IX, 795
Bingen group, X, 228
Bistineau dome, X, 252
cap rock, X, 255
geology, X, 253
structure, X, 255
topography, X, 253

Cane River beds, X, 235, 250, 264, 281
Cedar Creek dome, X, 282
  geology, X, 284
  structure, X, 286
  topography, X, 284
  wells, X, 284, 287
chalk, X, 263
Claiborne group, X, 225, 234, 250
coastal oil fields, V, 333
Comanchean, X, 225, 227
Coochie Brake dome, geology, X, 289
  structure, X, 290
  topography, X, 288
Cote Blanche dome, IX, 780; X, 286
  geology, IX, 781
  physiography, IX, 781
Cotton Valley oil field, IX, 875
  development, IX, 878
  production, IX, 883
  structure, IX, 878
Cotton Valley oil and gas field, Webster Parish, VIII, 244
Cretaceous, X, 225, 227, 262
  of northwestern, V, 298
Drake's dome, X, 271
  structure, X, 275
Edgerly oil field, IX, 497
Eocene, X, 7, 225, 227, 232, 281
Five Islands, IX, 756
  problems presented by, IX, 792
folding effects in, VII, 180
fossils, IX, 83, 85
  Jennings field, X, 83
gas and oil, Jennings oil field, X, 85
gas production from the Spring Hill-Sarepta gas field, Webster and Bossier parishes, VII, 555
geology of Drake's salt dome, X, 273
  of northern, II, 61
  of northwestern (Cretaceous) V, 298
  of Pine Prairie dome, IX, 744
Haynesville Field, explanation of the large initial production of some wells in, VII, 295
interior salt domes, X, 217
  geology, X, 223
  stratigraphy, X, 225
  table of characteristics, X, 224
Jefferson Island, IX, 758
  geology, IX, 760
  physiography, IX, 759
Jennings oil field, geology, X, 77
  physiography, X, 74
  production, X, 87, 88
  structure, X, 80
  well logs, X, 82
  well record, X, 84
  wells at, X, 79
King's dome, X, 256
  geology, X, 257
  structure, X, 259
  topography, X, 257
  wells, X, 257
Lower Cretaceous, X, 7
marls, X, 263
Midway formation, X, 232, 264
  in Prothro dome, X, 249
Miocene fossils, IX, 88, 97
Monroe gas field, VII, 565
  geology, VII, 566
  stratigraphy, VII, 566
Nacatoch formation, VII, 647, X, 232
oil and gas fields in northern, II, 61; IV, 136; *VI, 179*
oil at Belle Isle, IX, 792
oil in Section 28 salt dome, IX, 1290
oil reserves, V, 411; VI, 44
paleontology of Jefferson Island, IX, 760
petroleum production in northern, IV, 131
physiography of Bayou Bouillon dome, IX, 1285
Pine Island gas, IX, 171
Pine Prairie dome, physiography, IX, 739
Pleistocene, X, 227
Price's dome, X, 265
  geology, X, 266
  structure, X, 271
  topography, X, 266
Prothro dome, IX, 904, X, 245
  geology, X, 247
  structure, X, 252
  Wilcox formation, X, 249
Quaternary, X, 227
Rayburn's dome, X, 260
  geology, X, 262, 264
  structure, X, 265
  topography, X, 262
review of publication on salt domes, VI, 385
Sabine Uplift, IV, 117
St. Maurice beds, X, 237, 281
salines in, X, 218
salt domes, V, 227; VI, 385; IX, 1230; X, 1, 14
salt structures, IX, 832
Section 28 salt dome, St. Martin Parish, IX, 1290
southern, stratigraphic section, X, 84
Sparta sand, X, 236, 287
Spring Hill-Sarepta gas field, Webster and Bossier parishes, VII, 546
stratigraphy, VI, 180
Tertiary, X, 227, 264
the Many salt dome, Sabine Parish, IX, 170
the Sulphur salt dome, IX, 479

topographic map of King's salt dome, X, 258
topography of Prothro dome, X, 246
unconformities, IX, 750; X, 235
Upper Cretaceous, X, 7, 227
Vacherie dome, cap rock, X, 243
geology, X, 239
structure, X, 244
topography, X, 239
Washita group, X, 243
volcanic ash in northern, VIII, 524
from Calcasieu Parish, X, 93
volcanic rocks in the Cretaceous of, VIII, 344
Weeks Island dome, IX, 774
geology, IX, 776
oil, IX, 780
physiography, IX, 776
salt production, IX, 779
well sections on King's salt dome, X, 261
on Vacherie salt dome, X, 241
wells drilled on the interior salt domes of, X, 222
on Bayou Bouillon salt dome, IX, 1286
on Bistineau salt dome, X, 253
on Drake's salt dome, X, 272
Welsh oil field, IX, 464
Wilcox formation, X, 233, 257, 264, 281
Winnfield dome, cap rock, X, 279
surface geology, X, 279
topography, X, 277
well sections on, X, 283
wells on, X, 277
Yegna formation, X, 237, 281

Louisiana and Arkansas, geology, plans for compilation of, VIII, 350
relation of Upper Cretaceous to Eocene structures in, VII, 379
stratigraphy of producing sands, VII, 362
bibliography, footnotes, VII, 363–367
Louisiana and Texas, interior salt domes of, geology, X, 6
stratigraphy, X, 6
occurrence of sulphur waters in the Gulf Coast of, and their significance in locating new domes, IX, 35
subsurface stratigraphy of the coastal plain of, IX, 79
topography of interior domes, X, 13

Lowe, E. N., *oil and gas prospects in Mississippi, V, 490*

Lower Bend shale, III, 35, 139, 175, 188, 229, 237; V, 376, 553; VI, 150

Lower California, review of two papers on, VI, 60

Lower Cretaceous, Arkansas, V, 15
Louisiana, V, 305
Montana, V, 261
Texas, V, 8

Lower Freeman-Hampton sand, Archer County, Texas, X, 465

Lower Hess formation, V, 548

Lower Mackenzie oil field, V, 526

Lower Magdalena formation, V, 545

Lower Ordovician, Oklahoma, V, 421

Lower Permian, Texas, V, 14

Lower Trinity, Texas, V, 20

Lower Wichita, Texas, V, 548

Lowville formation, V, 651

Lubricants, California, VIII, 567

Lubrication, symposium reprints, American Chemical Society, X, 1003

Lucas, Captain Anthony F., memorial, V, 688
theory of origin of salt domes, IX, 849

Lucero formation, Cuba, II, 142

Lueders limestone, I, 94

Luling field, Texas, VIII, 775; IX, 532
bibliography, IX, 653
development problems, IX, 650
fossils, IX, 644
geology, IX, 636, 641, 647
production, IX, 652
structure, IX, 640

Lupton, Charles Thomas, geological section in western Kansas, VI, 549
results and prospects of deeper drilling in the Rocky Mountain fields, VII, 400

Lupton, Charles Thomas, and Lee, Wallace, *geology of the Cat Creek oil field, Fergus and Garfield counties, Montana, V, 252,* 327

Lupton, Charles Thomas, Lee, Wallace, and Van Burch, Lisle Reed, *oil possibilities of western Kansas, VI, 69*

Lusk oil field, III, 358

Luta limestone, II, 75

Lutetien, Europe, VI, 526

Luyano marl, Cuba, II, 141

Lykins formation, II, 84

Lyons oil field, VI, 260

Lyons sandstone, II, 84

Lytton Springs oil field, Texas, X, 953
Austin chalk, X, 958
decline of production, X, 972

Eocene, X, 956
gas, X, 969
geology, X, 955
Midway formation, X, 956
oil, X, 968
paraffin, X, 974
porosity of the rock, X, 965
production, X, 965
serpentine, X, 961
source of, X, 972
water, X, 969
Wilcox formation, X, 956

Mc

McAlester shale, III, 268; V, 34, 124, 548; VI, 13
McCollom, C. R., and Templeton, R. R., *Santa Fe Springs field, California, VIII, 178*
McCoy, Alexander Watts, *a brief outline of some oil-accumulation problems, X, 1015*
a short sketch of the paleogeography and historical geology of the Mid-Continent oil district and its importance to petroleum geology (review of), V, 102; (*main paper*), *V, 541*
experimental petroleum geology, V, 466
on the migration of petroleum through sedimentary rocks, II, 168
soluble material in oil shale, IX, 1025
some effects of capillarity on oil accumulation, I, 140
MacDonald, Donald Francis, *some factors of Central American geology that may have a bearing on the origin of petroleum, IV, 263*
and others, *notes on the stratigraphy of Panama and Costa Rica, III, 363*
McDonald, Worth W., *the Cotton Valley, Louisiana, oil field, IX, 875*
McDonald oil field, V, 360
McElmo formation, VI, 47, 204, 219
McKee, Ralph H., review of his "oil shale," X, 452
McKeesport oil field, V, 83, 364
Mackenzie Basin, V, 86
McKittrick formation, VI, 57
McKittrick oil field, V, 181, 457
McLaughlin, Roy Parmelee, California oil fields, V, 623
conservation of oil and gas resources in California, IV, 17
regularity of decline of oil wells in California, V, 178
review of his "oil land development and valuation," VI, 56
"structure," V, 98
McNutt, Vachel Harry, memorial of Guy Henry Cox, VI, 566
McShea, M. F., Johnson, Bertrand L., and Jones, L. M., bibliography of foreign petroleum resources, IX, 368, 622

M

Madill oil field, III, 359
Madison limestone, IV, 38; V, 188, 258; VI, 148
Maeotic, Europe, VI, 526
Maestrichian, Holland, V, 7, 27
Magdalena limestone, IV, 74, 99; V, 164, 546, 562, 606
Magnesian formation, VI, 374
Magnetic field balances, construction, theory and application of, X, 1189
Magnesium minerals, in Big Hill dome, Texas, IX, 719
Magura sandstone, Europe, VI, 526
Mahoney dome, VII, 144
Maidan-i-Naftum oil field, Persia, X, 428
Makuoketa formation, IV, 45
Mancora area, V, 588
Mancos shale, IV, 109; V, 23; VI, 204, 220
Mangum dolomite, II, 114
Manitou limestone, II, 85
Many Salt dome, Sabine Parish, Louisiana, IX, 170
Manzano group, IV, 105; V, 163, 605
Maps, topographic and geologic, interpretation of, review, X, 906
Marathon uplift, V, 14, 377
Marble Falls limestone, Texas, III, 36, 39, 71–81, 139, 157, 174, 188, 191, 219, 230, 237, 419; V, 157, 377, 543; VI, 13, 150; X, 462, 481
fauna of, III, 230
Maricopa oil field, V, 453
Maricopa shale, Wheeler Ridge, California, X, 498

Marion formation, II, 75, 83; V, 508
Marland sand, V, 118, 139
Marlbrook marl, Arkansas, VI, 54, 352, 361, 473, 477, 479
Louisiana, II, 62; IV, 128; V, 305; VI, 181
Marls, Louisiana, X, 263
Marmaton formation, V, 295, 510
Maros-Ujvar salt dome, IX, 1246
Marsters, Vernon Freeman, *outline of the geology and development of the petroleum fields of Peru, South America, with notes on other occurrences in the Peruvian Republic, V, 585*
Martin, George Curtis, *natural coal tar mistaken for oil residue, VI, 293*
Martinez formation, VI, 305
Maryland, V, 369
Mason, measuring meter for oil wells, V, 518
Mason, Shirley Lowell, *a statistical investigation of the effects of structure upon oil and gas production in the Osage, III, 407*
Roumanian oil fields, IX, 145
Mason, S. L., and Barton, Donald C., barite pisolites from the Batson and Saratoga oil fields, IX, 1294
Masuk sandstone, VI, 223
Matfield shale, I, 113
Matteson, Wallace George, *a review of the development in the new central Texas oil fields during 1918, III, 163*
theory of origin of salt domes, IX, 858
Maunch Chunk formation, IV, 308; V, 81
Maxon formation, IV, 308
Maxton sand, IV, 28, 30; V, 82
Mayes limestone, V, 121
Mead, W. J., experiments showing effects of rotational stresses, X, 296
Medicine Hat, Alberta, VII, 156
Medicine Lodge gypsum, II, 74, 114
Medina sandstone, V, 359
Melcher, Alles Francis, *apparatus for determining the absorption and the permeability of oil and gas sands for certain liquids and gases under pressure, IX, 442*
investigations on permeability and absorption of "sands" for oil, water, and gas, with reference to their normal and possible yield, VI, 143
texture of oil sands with relations to the production of oil, VIII, 716
Melcher's method, for determining porosity, X, 937
Meletta beds, Europe, VI, 526
Memorial of Arthur Eaton, VII, 461
of Bryan Hendon, X, 1188
of Carl Bernard Hummel, VII, 715
of Charles Stirling Huntley, X, 1322
of Glenn Beckley Morgan, IX, 1220
of Hans von Höfer, VIII, 534
of Henry L. Hamilton, X, 358
of James V. Howe, X, 1188
of Philip Charteris Anstruther Stewart, VII, 321
Mendez formations, Mexico, X, 681
Mendez marl, III, 359; VI, 91
Menefee sand, IV, 307
Menilite slates, Europe, VI, 526
Mentor beds, II, 79
Mentor sandstone, Kansas, X, 556
Meramac oil pool, V, 135
Merkle dolomite, I, 93, 97, 98
Merrin, A. H., letter on exploration for oil in Australia, VIII, 244
Merritt, John Wesley, *Pennsylvanian sedimentation around Healdton Island, IV, 47*
structure of western Chaves County, New Mexico, IV, 53
Merwin, H. E., and Goldman, Marcus I., color chart of the committee on sedimentation of the National Research Council, IX, 1018
Mesa de Solis, Mexico, IX, 1012
Mesaverde formation, I, 151; IV, 108; V, 204; VI, 204, 222
Mesozoic, Alberta, VII, 157
New Mexico, IV, 95
South Dakota, VI, 552
Metamorphism, causes, V, 68
in oil-bearing formations, indices of, VII, 291
lithologic character of shale as an index of, X, 625
Metamorphosed sediments, V, 508, 667
Mexia fault, VI, 494
Mexia faulting, mechanics of the Valcones and, X, 1261
Mexia oil field, Texas, III, 96; V, 419; VI, 325, 494
hydraulic accumulation of oil in, VII, 219

Mexia, Texas, petroleum accumulation and faulting at, VII, 226
Mexican oil, probable source of, X, 692
Mexican oil fields, Tamasopo Ridge, Mexico, X, 439
Mexico, Chapeño salt dome, Tamaulipas, IX, 134
Chiapas, VI, 154
claims against, IX, 183
Colima, VI, 154
Cretaceous, IX, 127, 137
Eocene, IX, 129, 142
Eocene fauna from the Moctezuma River, IX, 298
geologic history of the Panuco River Valley and its relation to the origin and accumulation of oil in, X, 667
history of development, VI, 493
Mendez formations, X, 681
Mesa de Solis, IX, 1012
Miocene, IX, 144
Oaxaca, VI, 154
oil fields, III, 293; V, 15, 85, 101, 335 397, 451, 465, 504, 677
Oligocene, IX, 144
Panuco district, Foraminifera, X, 684
fossils, X, 684
production, X, 690
Panuco River Valley, Cretaceous, X, 671
Jurassic, X, 671
structure, X, 685
Persia and Egypt, reflected buried hills in the oil fields of, X, 422
review of publication on extinguishing fires, VI, 390
review of publication on petroleum reserves, VI, 264
review of publication on prospecting in, VI, 261
Salado Arch, Nuevo Leon, and Tamaulipas, a reconnaissance study of the, IX, 123
Salado Arch, structure, IX, 131
salt structures in Isthmus of Tehuantepec, IX, 834
San Felipe formation, X, 675
southern, VI, 154
stratigraphy of the Tampico district, IX, 136
Tamasopo series, X, 671
unconformities, IX, 111, 144; X, 442, 673
Velasco formation, X, 683
Michigan, oil and gas in, VI, 496
oil prospecting in, VI, 381
oil reserves, VI, 44
Micro-fossils, bibliography, footnotes, VIII, 540–49
Micro-fossils in petroleum exploration, the value of, VIII, 539
Microlithology and micro-paleontology of the oil-bearing formations in the Sunset-Midway and Kern River oil fields, X, 482
Micro-paleontological divisions, Etchegoin formation, Sunset-Midway oil region, California, X, 487, 488, 489
Micro-paleontology and microlithology of the oil-bearing formations in the Sunset-Midway and Kern River oil fields, X, 482
Microscope, binocular, use of, IX, 175
Microthermal observations of some oil shales and other carbonaceous rocks, X, 860
Mid-Continent area, core drilling for structure in the north, X, 513
Mid-Continent field, oil reserves, V, 411
Oklahoma, explained on hydraulic theory, VII, 218
paleogeography, V, 541
review of publication on history, VI, 383
Mid-Continent oil fields, notes on the subsurface pre-Pennsylvanian stratigraphy of the northern, V, 117, 324
Mid-Continent region, early Pennsylvanian "Red Beds" in the, IX, 814
granite wells in the northern, IX, 351
Middle Leine salt-dome ridge, IX, 1261
Middle Leine Valley district, IX, 1247
Midway Foraminifera, Keechi dome, Texas, X, 40
Midway formation, X, 38, 247
Arkansas, VI, 363
Louisiana, II, 62; IV, 129; VI, 180; X, 232, 264
Lytton Springs oil field, Texas, X, 956
Texas, I, 75; *VI, 323;* X, 27, 61
Midway formation in Prothro dome, Louisiana, X, 249
in southwestern Arkansas, guide notes on the, IX, 167
Midway oil field, California, VII, 115
Midway shales, Texas, X, 39, 45, 50
Midway-Sunset oil field, V, 51, 181, 383, 457, 624
Migration and accumulation of petroleum, the effect of, X, 917
Migration and flushing, influence of rate of movement of water, VII, 222

Migration of oil, II, 168; IV, 105, 254
review of publication on displacement of water in sands, VI, 386
the effect of pressure on the, VIII, 527
Migration of oil and water, a further discussion, VIII, 697
bibliography, footnotes, VIII, 697–712
Milk River, Alberta, VII, 156
Millard, William John, *geological notes on the Belgian Congo, V, 661*
Miller, Wendell Zerbe, *the Burbank field, Osage County, Oklahoma, V, 502*
Millican, Charles V., *interrelations of the folds of Osage County, Oklahoma, IV, 151*
Millican formation, III, 128
Mills, R. Van A., *natural gas as a factor in oil migration and accumulation in the vicinity of faults, VII, 14*
Mills, R. Van A., and Wells, R. C., theory of origin of salt domes, IX, 858
Millsap limestone, II, 84; III, 134, 138, 140, 146, 148; V, 558; VI, 12
Milner, Henry B., review of his "an introduction to sedimentary petrography with special reference to loose detrital deposits and their correlation by petrographic methods," VII, 194
review of his "correlation of sediments by petrographic methods," VIII, 97
review of his "paraffin dirt, its nature, origin, mode of occurrence, and significance as an indication of petroleum," IX, 1118
Mineral Wells sandstone, III, 138
Minerva oil field, Texas, VIII, 632
stratigraphy, VIII, 632
Mining methods, Bryan Heights dome, IX, 625
Minnelusa sandstone, V, 190
Minnesota, Cambrian, X, 194
Cretaceous, X, 195
Devonian, X, 195
geological map of, X, 193
oil and gas possibilities, X, 190
oil reserves, VI, 44
Ordovician, X, 194
Pleistocene, X, 196
Minor, H. E., *chemical relation of salt dome waters, IX, 38*
Edgerly oil field, Louisiana, IX, 497
Goose Creek oil field, Harris County, Texas, IX, 286
Miocene, Borneo, V, 417
California, VI, 306; VIII, 792, 797
Colombia, X, 398
Europe, VI, 526
Hockley dome, Texas, IX, 1046
Lower, Los Angeles Basin, California, X, 756
Panama and Costa Rica, III, 365
Roumania, IX, 154, 1171
Saratoga Field, Texas, IX, 267
southern California, VII, 415
sub-Carpathian zone, IX, 1240
Tampico district, Mexico, IX, 144
Texas, V, 223, 326, 384; VIII, 437; IX, 21
Texas and Louisiana, IX, 80
Wheeler Ridge, California, X, 498
Miocene fossils in California, X, 132, 757
Miocene paleogeography in the central Coast Ranges, X, 130
of California, bibliography of, X, 136
Miocene shale, California, X, 898
Mirando oil field, V, 625
Miri oil field, V, 417
Misener sand, V, 406
Miser, Hugh D., temperature of Oklahoma's deepest well, VIII, 525
Miser, Hugh D., and Ross, Clarence S., pre-Cambrian rhyolite discovered in well in northwestern Arkansas, IX, 1115
Mission oil field, III, 299, 307
Mississippi, geology and oil prospects, V, 490
northeastern, Kentucky, and Tennessee, oil horizons of, VIII, 621
oil and gas prospects, I, 152; V, 490
oil reserves, VI, 44
petroleum prospecting in, VII, 684
review of publication on, VI, 385
Mississippi lime west of the Granite Ridge in Kansas, X, 96
Mississippian, Arizona, VI, 48
Illinois, IV, 45; V, 95
Indiana, IX, 321
Kansas, II, 105, 109; IV, 256; V, 73, 276, 509; VI, 374; VIII, 445; IX, 1211
Kentucky, IV, 304; V, 522; VI, 25
Kentucky and Tennessee, VIII, 627
Lower Madison limestone, in Montana, VII, 269
Montana, VI, 147; X, 987
Mississippi, V, 495
New Mexico, IV, 104

Oklahoma, II, 58; III, 274; IV, 174; V, 34, 117–51, 404, 552, 561; VI, 6, 322, 469
Rocky Mountain region, VII, 406
Tennessee, V, 168, 646; VI, 240
Texas, V, 14; VI, 151
Thomas field, Oklahoma, X, 648
West Virginia, IV, 28
Wyoming, V, 188
Missouri, historical geological progress, I, 24
isostatic structures, review of publication on, VI, 384
oil reserves, VI, 44
Moctezuma River, Mexico, Eocene fauna from the, IX, 298
Models, geological features illustrated by, VIII, 89
Moenkopi formation, VI, 47, 89, 205, 211, 213, 224, 227, 244
Moline district, V, 147, 507
Mollusks, VII, 185
Mona shale, III, 364
Monett, Victor Elvert, *topographic criteria of oil-field structure, VI, 37*
Mongollon Plateau, Supai formation, X, 825
Monitor district, Alberta, VII, 155
Monongahela formation, III, 148
Monroe gas field, Louisiana, II, 68; IV, 123; VI, 155, 191, 383; *VII, 565*
geology, VII, 566
Montana, Carboniferous, X, 986
Cat Creek oil field, V, 252, 327
central, relation of deep-seated faults to the surface structural features of, VII, 1
comparative stratigraphy in, VII, 159
Cretaceous, bibliography, footnotes, IX, 887–902
development, VI, 147
east-central, the Quadrant formation of, X, 986
Eocene, VII, 12
Garfield County, oil and gas prospects, VI, 144
Jurassic, VII, 174
Kevin-Sunburst field, VII, 263, 275; X, 197
explained on hydraulic theory, VII, 217
geology, VII, 266
stratigraphy, VII, 266
structure, VII, 271
Lower Cretaceous (Comanchean), VII, 171
Madison limestone in, VII, 269
Mesozoic, VII, 12
Mississippian, X, 987
oil reserves, VI, 44
Paleozoic, VII, 12
Pennsylvanian, VII, 176; X, 987
Permian, VII, 175
possibilities for oil and gas, IV, 42, *313*
Quadrant formation, oil possibilities, X, 995
quartzite pebbles at the base of the Lance formation in, IX, 344
structure, IV, 253
Sweet Grass arch, review of publication on, VI, 262
thrust faults, X, 106
unconformities, VII, 7; IX, 894; X, 993
Upper Cretaceous, VII, 159
Upper Cretaceous paleogeography, VIII, 554
Upper Cretaceous sedimentation and diastrophism in, IX, 886
Montana group (formation), V, 203; VI, 146
Montana shale, Wyoming, VII, 488
Montebello oil field, V, 458, 624; VI, 303
Monterey formation, V, 12
Monterey group, Los Angeles Basin, California, X, 756
Monterey shales, California, VIII, 55; X, 898
Foraminifera, X, 131
Montoya limestone, IV, 104
Moody, Wilbur Laddie, memorial of, V, 432
Moore, E. S., description of concretions, Saratoga oil field, Texas, IX, 275
Moore, Raymond Cecil, a schedule for the field description of sedimentary rocks, VI, 254
age of the Barnett (Lower Bent) shale of central Texas, VI, 150
discussion of Dorsey Hager's "oil possibilities of the Holbrook area in northeast Arizona," VI, 47
early Pennsylvanian deposits west of the Nemaha Granite Ridge, Kansas, X, 205
editor's report for 1922, VII, 313; for 1923, VIII, 379; for 1924, IX, 695; for 1925, X, 546
geologic history of the crystalline rocks of Kansas, II, 98
memorial of Glenn Beckley Morgan, IX, 1220
possible oil in southern Utah, VI, 244
presentation of scientific papers, VII, 87

review of E. H. Burroughs' "bibliography of petroleum and allied substances for 1919–20," VII, 302
review of J. S. Ross' "preliminary report on Tonkawa, Oklahoma, oil field," VII, 197
report of the eighth annual meeting of the American Association of Petroleum Geologists, 1923, VII, 202
report on distribution of membership, American Association of Petroleum Geologists, VIII, 390
stratigraphy of a part of southern Utah, VI, 199
studies in petroleum geology, VI, 545
the Bend series of central Texas, III, 217
the relation of mountain folding to the oil and gas fields of southern Oklahoma, V, 32
the relation of the buried granite in Kansas to oil production, IV, 255
The Wichita meeting of the American Association of Petroleum Geologists, March, 1925, IX, 678
Moore, Raymond Cecil, and Girty, George H., *age of the Bend series, III, 418*
Moore, Raymond Cecil, and Haynes, Winthrop Perrin, *an outcrop of basic igneous rock in Kansas, IV, 183*
Moorefield shale, III, 235; V, 549; VI, 151
Moran, Robert B., *rôle of the geologist in the development of the California oil fields, VIII, 73*
Moran formation, III, 138
Moran oil field, III, 49, 93, 94
Moravia, review of publication on, VI, 387
Moreni oil field, Europe, VI, 526
Moreni salt dome, IX, 1242
Moreno shale, age and correlation of the, X, 812
Morgan, Glenn Beckley, memorial by Raymond C. Moore, IX, 1220
Morgan, L. C., and Johnson, Roswell H., *a critical examination of the equal pound loss method of estimating gas reserves, X, 901*
Morgan red beds, VI, 226
Mormon oil field, IV, 160
Morris dome, Kentucky, VI, 31
Morris oil field, III, 273
Morris sand, V, 290
Morrison formation, Colorado, VI, 74
Montana, V, 257; VI, 146
New Mexico, IV, 75, 99; VI, 74
Wyoming, V, 195
Morrow formation, III, 234, 241, 271, 290; IV, 180; V, 123, 543–64, 344; VI, 153
Morse, P. F., *petroleum prospecting in Mississippi, VII, 684*
Morse, Roy R., meeting of the Pacific Section, November, 1925, X, 100
Mortar beds, II, 73
Mosby sandstone, V, 263; VI, 146
Mose Carr sand, V, 291
Moulder oil pool, VI, 24
Moulton, Gail F., *some features of redbed bleaching, X, 304*
Moulton, G. F., and Fath, A. E., review of their "oil and gas field of the Lost Soldier-Ferris district, Wyoming," IX, 363
Mounds sand, III, 272; V, 128, 148
Mount Pisgah sand, IV, 306
Mount Pleasant dome, VI, 81
Mount Selman formation, Texas, IV, 130; X, 51
Mowry shale, III, 357; IV, 38; V, 197, 265; VI, 146
Mud fluid, use in drilling, VII, 127
Muddy formation IV, 38
Muddy sand, V, 197
Mule Creek, review of publication on, VI, 385
Mule Creek oil field, IV, 37
Mylius, Louis Aubrey, oil and gas in Monroe County, Illinois, V, 87
review of his "review of Illinois for 1920," V, 107
Mylius, Louis Aubrey, and De Wolf, Frank Walbridge, *a new Trenton field in Illinois, IV, 43*

N

Naborton oil field, II, 65; IV, 131
Nacatoch formation, Louisiana, VII, 647; X, 232
Nacatoch sand, Arkansas, V, 632; VI, 54, 350, 361, 473, 477, 479
Louisiana, I, 153; II, 62; IV, 118; V, 304; VI, 142, 181, 194, 247
Mississippi, V, 492
Texas, V, 420
Namaha Mountains, V, 330

Naphtha and ozocerite on Lake Baikal, Siberia, IX, 811
Nashville Basin, V, 646, 654
National Research Council, color chart of the committee on sedimentation of the, IX, 1018
National Research Council and oil geology, VII, 467
Natural gas as a factor in oil migration, bibliography, footnotes, VII, 14–20
and accumulation in the vicinity of faults, VII, 14
Natural reduction of sulphates, problem of the, X, 1270
Navajo sandstone, VI, 204, 218, 244
Navarro formation, Arkansas, VI, 54
Texas, I, 75; III, 300, 301; V, 7, 26, 382; VI, 324, 494; X, 39, 41, 53, 61
Navarro shales, Texas, X, 50
Navarro-Taylor, Texas, X, 769
Navasopa (phase of Fleming beds), I, 36
Nebraska, oil possibilities, VI, 88
oil reserves, VI, 44
Necrology. (See Memorial)
Negritas oil field, V, 586, 592, 600
Nelson, Wilbur A., *oil developments along the Kentucky-Tennessee line during 1923, VIII, 454*
oil-horizons of Kentucky, northeastern Mississippi, and Tennessee, VIII, 621
review of his "*description of oil and gas areas in Tennessee, and conditions affecting the development in new areas,*" V, 99; publication of same paper, *V, 645*
Nemaha Granite Ridge, Kansas, early Pennsylvanian deposits west of the, X, 205
early Pennsylvanian sediments west of the, discussion, X, 636
Nenana coal field, VI, 293
Neocomian, Texas, V, 7
Neva limestone, II, 77
Nevada, oil reserves, VI, 44
New Iberia oil field, II, 16, 36
New Mexico, Aba sandstone, X, 833
carbon ratios of Cretaceous coals in, in their possible relation to oil, VIII, 519
Castile gypsum, X, 848
Chaves County structure, IV, 53
Chupadera formation, X, 837
coal, V, 328
fossils of Chupadera formation, X, 838
general geology, IV, 95
granite in, V, 163, 166, 605
Gym limestone, X, 847
oil development, IV, 80
oil reserves, IV, 95; VI, 44
review of publication on, VI, 387
Rustler limestone, X, 848
San Juan Basin, hydraulic accumulation of oil in, VII, 216
stratigraphy, IV, 73, 95; V, 18, 23, 25, 546, 550, 552, 562; VI, 47
structure in northeastern, IV, 73
New Mexico and Arizona, Permian of, bibliography, footnotes, X, 819–51
New Providence shale, VI, 26
New York, oil fields of, IX, 798
oil reserves, VI, 44
review of publication on, VI, 386, 389
New Zealand, East Coast district, bibliography, X, 1258
geology, X, 1231, 1247
oil and gas prospects of, X, 1227
oil discovery, X, 451
review of publication on, VI, 261, 263
Taranaki district, geology, X, 1239
wells drilled in, X, 1243
unconformities, X, 1231, 1239, 1246, 1247
Westland district, geology, X, 1236
Newcastle sand, V, 198
Newcomer Society, note on, V, 419
Newkirk oil field, IV, 177; V, 138, 568
Niagara limestone, Kentucky, II, 40; IV, 305; VI, 25
Oklahoma, V, 122
West Virginia, III, 156
Nickel in petroleum, the significance of, review, VIII, 832
Nigger Creek oil pool, Limestone County, Texas, discovery of, X, 997
Niobrara formation, Canada, IV, 314
Kansas, VI, 70, 550
Texas, II, 73
United States in general, V, 10, 23
Wyoming, V, 202
Normal faults in the Rocky Mountain region, X, 113
North American salt domes, origin of, IX, 831, 843, 853, 864, 872
North Dakota, oil reserves, VI, 44
North Haakon County, South Dakota, structure in, review, X, 533

North (Russian) Sakhalin, fossils, Tertiary, X, 1156
Northwest Basin, Western Australia, geologic structure of, X, 1144
Jurassic, X, 1143
oil prospects of the, X, 1136
Permo-Carboniferous rocks of, X, 1139
Norton, E. G., theory of origin of salt domes, IX, 850
Nos Naranjos oil field, V, 464
Nowata formation, I, 135; V, 293, 509; VI, 464
Nowata oil field, V, 561
Nowels, Kenneth B., *preliminary report on water conditions in the first Wall Creek sand, Salt Creek oil field, Wyoming, VIII, 492*
Nuevo Leon, Mexico, oil possibilities in, IX, 123

O

Oakville formation, I, 36; IV, 130; V, 223
Occurrence of petroleum in Mackenzie River region, Canada, review, VII, 303
Officer, H. G., Clark, Glenn C., and Aurin, F. L., *core drilling for structure in the north Mid-Continent area, X, 513*
Officer, H. G.; Gould, Charles N., and Aurin, F. L., *the subdivision of the Enid formation, X, 786*
O'Hara formation, VI, 27
Ohern, Daniel Webster, *a contribution to the stratigraphy of the Red Beds, II, 114*
Ohio, Medina sand in, V, 367
oil reserves, VI, 44
Ordovician oil, review of publication on, V, 104
Ordovician oil and gas sands, V, 609
production, review of publication on, VI, 383
Oil, a theory to account for occurrence of, in the vesicular cavities of igneous intrusions, VII, 288
Angola, III, 360
Australia, exploration for, VIII, 244
Baku, III, 357
Belle Isle, Louisiana, IX, 792
Bellevue pool, VI, 247
Big Hill dome, Texas, IX, 725
black, in Wyoming, occurrence of, X, 443
Blue Ridge, analyses of, IX, 314
Borneo, review of publication on crudes of, V, 417
British Columbia, VI, 126
California, III, 357; VI, 313, 481
California, observations relating to the origin and accumulation of, X, 892
were diatoms the chief source of? X, 709
Canada, V, 85
carbon ratios of Cretaceous coals in New Mexico in their possible relation to, VIII, 519
Colombia, III, 359
original source of, X, 382
original source of, discussion, X, 1175
crude, Jennings field, distribution with depth, X, 92
Edgerly crude, analysis of, IX, 502
Falfurrias, IX, 580
Fox field, VI, 367
further considerations of prospect for, in the Decatur area, review, IX, 359
Goose Creek, Texas, IX, 294
Gulf Coast, II, 16
Humble field, I, 68
Illinois, IV, 45
Indiana, Ordovician, VI, 374
Indiana, the production of, IX, 317
invasion of, into a water-wet sand, review, VII, 85
Jennings field, Louisiana, X, 85, 86
temperature and gravity of, X, 89
Kansas, VI, 370
Western, VI, 83
Kentucky, III, 357; IV, 303; VI, 29, 32
Louisiana, IV, 135, 136; VI, 185, 196
Luling, Caldwell County, Texas, VII, 182
Lytton Springs field, Texas, X, 968
Mexico, III, 359
geologic history of the Panuco River Valley and its relation to the origin and accumulation of, X, 667
probable source of, X, 692
Michigan, VI, 381
modes of occurrence, VII, 606
New Mexico, IV, 57
occurrence of, at Commodoro Rivadavia, Argentine, Patagonia; review, IX, 181
Oklahoma, II, 57, 58
production statistics, for 1919, IV, 280
origin, III, 286, 345; IV, 40, 105, 263; VII, 605
in the Luling field, Texas, IX, 648

Permian, indigenous to, VI, 88
Peru, review, X, 98
Pine Prairie dome, Louisiana, IX, 753, 755
production methods, VI, 46
Ranger, III, 196
relation of, to carbon ratios of Pennsylvanian coals in north Texas, discussed by Willis Storm, VII, 291
relation of quality to structure, bibliography, footnotes, VII, 351–53
relation of quality of, to structure at El Dorado, Arkansas, VII, 350
review of publication on origin, VI, 386, 388
review of publication on relation between coals and oils, VI, 385
Roumania, IX, 152
Scotland, VI, 376
Section 28 salt dome, Louisiana, IX, 1290
source of, Archer County, Texas, X, 467
Lytton Springs field, Texas, X, 972
South Dakota, bibliography, footnotes, VII, 507–514
south Texas domes, IX, 575
Switzerland, IV, 87
Tennessee, V, 645
Tertiary rocks, Colombia, X, 403
Texas, III, 359
Texas Panhandle, bibliography, footnotes, X, 733–40
the effect of pressure on the migration of, VIII, 527
the world-race for, review of discussion in Literary Digest, VII, 303
Thrall field, III, 85; *V, 659*
United States reserves, VI, 42
Urschel pool, Kansas, VI, 432
Utah, VI, 244
value of, in United States, VII, 279
Venezuela, III, 359
Weeks Island, Louisiana, IX, 780
western Ziebach County, the possibility of, review, X, 638
world's reserve, VII, 581
Wyoming, III, 358

Oil-accumulation, IX, 1023
in relation to periods of folding, VII, 58
in the Rocky Mountain region, VII, 661
problems, a brief outline of some, X, 1015
theories, V, 571

Oil analyses, Barbers Hill, Texas, IX, 969

Oil and gas, Amarillo district, Texas, VII, 237
Bayou Bouillon dome, Louisiana, IX, 1289
Blue Ridge dome, Texas, IX, 311
effect of faults on migration and accumulation of, X, 125
establishment of Department of, California, VIII, 75
Hockley dome, Texas, IX, 1052
near Edna, Jackson County, Texas, X, 905
origin of, in Robberson field, Oklahoma, VII, 641
Rawlins-Lost Soldier district, Wyoming, VII, 145
Saratoga field, Texas, IX, 276
southwest Virginia, the possibilities of, as inferred from isocarbs, VII, 421
Spindletop dome, IX, 607
Stratton Ridge, Texas, IX, 30
Sulphur dome, IX, 487
Texas Panhandle, VII, 237
Welsh oil field, Louisiana, IX, 474
Wyoming, VIII, 515

Oil and gas education, progress in, VII, 622

Oil and gas field of the Lost Soldier-Ferris district, Wyoming, review, IX, 363

Oil and gas fields of the Texas Panhandle, X, 733

Oil and gas fields of Webb and Zapata counties, Texas, relation of the Reynosa escarpment to, VII, 532

Oil and gas lands, valuation of, review, IX, 356

Oil and gas possibilities, Alberta, VII, 156
Minnesota, X, 190
of eastern Alberta, VII, 147
of Sal del Rey and Sal Vieja, IX, 588
Oil and gas prospects in Mississippi, V, 490
of New Zealand, X, 1227
Oil and gas sands, apparatus for determining the absorption and the permeability of, IX, 442
of Wyoming, porosity, VIII, 739
porosity of, VIII, 772

Oil and ground waters, chemical relation, IX, 935

Oil and salt, relation between, IX, 153

Oil and water, migration of, a further discussion, VIII, 697

Oil company, geological organization of an, VIII, 651

Oil deposits, Barbers Hill, Texas, IX, 968
California, VIII, 561
classification of, according to types of structure, VII, 581
Damon Mound, IX, 529

Oil development in California, VIII, 61
Oil developments along the Kentucky-Tennessee line during 1923, VIII, 454
of 1922 in Illinois, VII, 78
Oil discovery, New Zealand, X, 451
Oil field, Batson, Hardin County, Texas, IX, 1277
Big Lake, subsurface geology of the, X, 365
Cotton Valley, Louisiana, IX, 875
Damon Mound, Texas, IX, 505
Edgerly, Louisiana, IX, 497
Goose Creek, Harris County, Texas, IX, 286
Huntington Beach, Orange County, California, VIII, 41
Kevin-Sunburst, Montana, X, 197
Lytton Springs, Caldwell County, Texas, X, 953
South Mountain, VIII, 810
Thomas, Kay County, Oklahoma, X, 643
Welsh, Louisiana, IX, 464
Wheeler Ridge, X, 495
Oil field and salt dome, Spindletop, Jefferson County, Texas, IX, 594
Oil fields, a comparative study of the San Joaquin Valley, VIII, 29
California, rôle of the geologist in the development of the, VIII, 73
tabulation, X, 893
China, VIII, 169; IX, 1295
China, acknowledgments and correlations, X, 449
geology of, in North (Russian) Sakhalin, X, 1150
location by radiometric surveying, VII, 290
Microlithology and micropaleontology of the oil-bearing formations in the Sunset-Midway and Kern River, X, 482
minor, of Kern County, review, VIII, 832
new development problems and their solution in southern California, VIII, 135
Oil fields and geology of Archer County, Texas, X, 457
New York State, IX, 798
Persia, Egypt, and Mexico, reflected buried hills in the, X, 422
Rawlins-Lost Soldier district, Wyoming, VII, 131
rejuvenated, review, VII, 304
Roumania, IX, 145
bibliography, IX, 156
of Ventura County, California, VIII, 789
calcium chloride waters from certain, IX, 1071
of Wyoming, VII, 95
Oil finding by geophysical methods, review, X, 200
Oil geologist, files of, IX, 331
Oil geology, application in Mid-Continent fields, II, 124
1903–22, bibliography, footnotes, VII, 605–22
contributions of, federal and state surveys, VII, 620
National Research Council and, VII, 467
Oil geology and science, VIII, 473
Oil horizons, Los Angeles Basin, California, X, 766
of Kentucky, northeastern Mississippi, and Tennessee, VIII, 621
Oil industry, costs of, in Oklahoma, VII, 279
its importance and some of its problems, VII, 277
Oil migration, X, 1024
bibliography, footnotes, VII, 213–24
gas propulsion theory of, VII, 223
in sedimentary rocks, II, 168; V, 62; VI, 343
natural gas as a factor in, bibliography, footnotes, VII, 14–20
and accumulation, hydraulic theory of, VII, 213; IX, 1143
in the vicinity of faults, natural gas as a factor in, VII, 14
Oil mining, VI, 342; X, 405
economic aspects of, X, 418
essential conditions, X, 420
Oil pool, Nigger Creek, Limestone County, Texas, X, 997
at Tidioute, Pennsylvania, review, VII, 304
Oil pools, Archer County, Texas, X, 476
Los Angeles Basin, California, X, 767
predictions of the future of, by early wells, X, 747
shoestring, of eastern Kansas, further observations on, X, 568
Oil possibilities in Grand and San Juan counties, Utah, VII, 396
Indiana, IX, 324
in South Dakota, VII, 507
in western Dewey County, South Dakota, review, VII, 303
of the Black Hills region, X, 800
discussion, X, 1177
Quadrant formation, Montana, X, 995
Sulphur dome, IX, 491

Oil-producing horizons, California oil fields, X, 893
Oil production. (See production)
Burmese India and Dutch East Indies, IX, 1097
business of, review, VII, 453
California fields, VII, 117
Japanese archipelago, IX, 1099
Persia-Mesopotamia, IX, 1095
Roumania-Caucasua-Transcaspia, IX, 1089
Saratoga field, IX, 265
Texas Panhandle, X, 744
Trinidad, IX, 1003
water analyses in, and some analyses from Poison Spider, Wyoming, IX, 927
Oil production and reserves, California, VIII, 212
Oil prospecting on Sakhalin Island by Japan in 1919–25, X, 1163
Oil prospects in China, bibliography, footnotes, X, 1074–1115
in northeastern China, X, 1073
in Shansi, China, X, 1083
in Shensi, China, X, 1089
of the Desert Basin of Western Australia, X, 1118
of the Northwest Basin of Western Australia, X, 1136
Oil recovery, Archer County, Texas, X, 470
Oil recovery, automatic bailer, review, VII, 84
Oil reserve in Teapot dome, Wyoming, VIII, 101
Oil reserves, California, VIII, 233
estimation of, VII, 609
estimation of underground, by oil-well production curves, review, IX, 361
for each state, VI, 44
Oil residue, VI, 293
Oil resources and geology of Trinidad, British West Indies, IX, 1000
Oil sand in the Permian "red beds" of Coke County, West Texas, an outcrop of surface, IX, 1215
Oil sands, bibliography, footnotes, VIII, 718–72
lateral shifting, V, 339
of Oklahoma, porosity, VIII, 762
of Pennsylvania, porosity, VIII, 738
porosity, VI, 143
recovery of content, VI, 343
with relation to the production of oil, texture of, VIII, 716
Oil saturation in certain sandstones, VII, 473
Oil seepages, Canada, V, 86
Oil shale, IV, 70, 145
a historical, technical, and economic study, review, VIII, 529
Australian, X, 868
Brazil, review of publication, VI, 388
British Isles, III, 361; IV, 60
Colorado, III, 361; IV, 62; review of publication on, VI, 385
flowage experiments on, IX, 1130
fossil débris in, X, 861
Indiana, V, 108
Kentucky, V, 100, 522
review of publication on, VI, 386
of the Rocky Mountain region, review, VII, 454
Parachute Creek, Colorado, X, 873
relation of, to petroleum, IX, 1127
résumé of distillation methods, IV, 59
review, X, 452
review of publication on, VI, 264
review of publications on extraction methods, VI, 387
Santa Barbara County, California, VIII, 459
soluble material in, IX, 1025
the effect of rock flowage on the kerogen of, IX, 158
United States, IV, 61
Utah, III, 361; IV, 61
Wyoming, IV, 195
Oil shale and origin of the Green River formation, IX, 247
Oil shale deposits in United States, VIII, 302
Oil shale investigations of United States Bureau of Mines, VII, 77
Oil shales, composition of, VII, 296
and other carbonaceous rocks, microthermal observations of some, X, 860
fossil constituents, temperature distinctions, X, 875
of the Maritime Provinces, Canada, discussed in geology of the Moncton map area, review, VII, 302
physical properties, VIII, 460
types of, VIII, 306
Oil strikes in Hanna Basin and Red Desert, Wyoming, VII, 575
Oil structure investigation, diamond drills and diamond-drill equipment for, X, 656
Oil well in southern France, IX, 346
Oil wells, experiments on back pressure on, VII, 37
in Shensi, China, X, 1105
Oil-bearing formations of southwestern Arkansas, X, 1310

Oil-bearing sands, Texas Panhandle, X, 742
Oil-field practice, California, bibliography, footnotes, VII, 125–28
notes on, VII, 114
Oil-field waters, California, X, 1294
sulphate-reducing bacteria from, X, 1293
Illinois, X, 1290
sulphate-reducing bacteria from, X, 1289
review of paper on chlorides, VI, 387
Wyoming, analyses of, IX, 235
Oil-leasing act, VII, 617
Oil-shale member of the Green River formation, Wyoming and Colorado, IX, 251
Oil-well geology of the coast region, a revision of the Texas Tertiary section with special reference to the, VIII, 424
Oil-well spacing, bibliography, footnotes, IX, 195
problem, IX, 193
Okema oil field, VI, 396
Oklahoma, areal geology of a part of southwestern, VIII, 312
Bartlesville sand, VIII, 764
Berwyn conglomerate in, IX, 987
Burbank field, Osage County, VIII, 584
production-porosity curve, VIII, 768
buried hills near Mannsville, X, 138
Chickasha formation, X, 798
costs of oil industry in, VII, 279
development in 1917, II, 53
development in 1919, IV, 277
Duncan sandstones, X, 797
Enid formation, X, 786
evidences of slumping previous to consolidation in the Pennsylvanian of, VIII, 505
fossils, Permian, X, 148
Garber sandstones, X, 794
geological map, IX, 920
Geological Survey, publications, IX, 708
review, X, 1311
geology, Permian, X, 144
bibliography, footnotes, VIII, 312–21
Stonewall quadrangle, IX, 355
Glenn formation, X, 143
with consideration of new paleontologic evidence, VII, 331
Graham field, VIII, 593
stratigraphy, VIII, 602
granite in, V, 421
Hart limestone in, IX, 984
Healdton field, III, 121, 257, 444; IV, 47, 121; V, 32, 48, 173, 326, 344, 469, 627; VI, 23, 476
Hennessey shale, X, 795
Henryetta district, bibliography, footnotes, VII, 50–56
Hickman sand, Burbank field, VIII, 766
Hunton formation, X, 141
Kirk gas sand in the Graham District, IX, 1024
map, Pontotoc series, IX, 985
new classification of the Permian redbeds of southwestern, VIII, 322
new geological map of, VIII, 240
oil reserves, V, 411; VI, 44
oil sands of, porosity, VIII, 762
old oil wells, review, VI, 391
origin of domes in northern, IV, 89
origin of the faults in Creek and Osage counties, X, 293
Ouachita uplift, X, 295
Ozark uplift, X, 295
paleogeography, V, 541
Pennsylvanian, VIII, 505; X, 143, 645
Tonkawa field, X, 885
Permian, X, 645, 786
bibliography, footnotes, VIII, 322–38
preliminary report on Tonkawa oil field, review, VII, 197
production, Tonkawa field, X, 891
progress of geological surveys, historical, I, 28
relation of mountain folding to oil fields, V, 32
Robberson field, Garvin County, VII, 625
stratigraphy, VII, 627
structure, VII, 630
Sayre field, Beckham County, VIII, 347
Simpson formation, VII, 558
Stillwater formation, X, 792
Stratford formation, IX, 988
structures, VI, 228; review of publication on structure and accumulation, VI, 262
subsurface Pennsylvanian stratigraphy, V, 117
suggestions in regard to Pennsylvanian paleogeography in the Henryetta District, Oklahoma, VII, 50
Sycamore limestone, X, 138
temperature of deepest well, VIII, 525
Thomas oil field, X, 643
Tonkawa field, VIII, 269, 284
Wilcox sand production, X, 885
unconformities, V, 33, 34, 406, 471, 579; VI, 12, 15, 55, 70; VII, 577, 628, 631, 641; X, 140
Verden sandstone of southwestern, IX, 626

Viola limestone, X, 142
volcanic ash in North Canadian Valley, VII, 576
volcanic tuffs in central, IX, 344
well logs, VIII, opp. 276
Wellington formation, X, 793
Wichita Mountains—geology, VI, 413
Woodford chert, X, 139
Oklahoma, Kansas, and northern Texas, correlation of the Permian of, X, 144
Oklahoma Survey, seventh field conference, 1926, X, 1306
Okmulgee district, III, 273; *V*, opp. 144, *282, 399*, 561
Old Red sandstone, III, 291
Oligocene, California, VI, 305, 307
Colombia, X, 398
Cuba, II, 144
Damon Mound, Texas, IX, 527
Europe, VI, 526
Georgia, VI, 398
Hockley dome, Texas, IX, 1049
Louisiana, VI, 180
Panama and Costa Rica, III, 364
Pechelbronn, X, 409
Roumania, IX, 154, 1171
Saratoga Field, Texas, IX, 267
sub-Carpathian zone, IX, 1240
Switzerland, IV, 88
Tampico district, Mexico, IX, 144
Texas, V, 224, 326; IX, 23, 100
coast region, VIII, 440
coral reefs in the, X, 976
Foraminifera, X, 977
fossils of coral reefs in the, X, 977
Wyoming, V, 53, 207
Olinda oil field, VI, 303
Onondaga formation, IV, 45, 305; VI, 25
Oölitic limestones, V, 376, 383
Oölogah limestone, I, 135; VI, 464
Opeche formation, V, 190
Open flow gauge and the working capacity of gas wells, IX, 217
Orcutt, W. W., *oil development in California, VIII, 61*
Ordovician, Indiana, IX, 322
interior of United States, III, 293
Kansas, II, 105, 109; V, 330, 509; VI, 374, 429
Kentucky, II, 40, 304; VI, 25
Kentucky and Tennessee, VIII, 621
Minnesota, X, 194
New Mexico, IV, 104
Ohio, V, 609
Oklahoma, III, 255, 264; IV, 174; V, 34, 128, 175, 344, 406, 471; VI, 6, 278, 413, 476; VII, 558
Tennessee, V, 646
Texas, III, 92, 129, 132; IV, 121; VI, 151
Thomas field, Oklahoma, X, 648
Utah, VI, 207
Ordovician sediments in western Kansas, X, 634
Oread limestone, V, 71
Oregon, oil reserves, VI, 44
Organic shales in the southern end of the San Joaquin Valley, California, IX, 228
Organization, geological, of an oil company, VIII, 651
Origin and accumulation of oil in California, observations relating to the, X, 892
Origin of Big Hill dome, Texas, IX, 724
of cap rock of American salt domes, IX, 566
of continents and oceans, review, IX, 916
of German salt domes, IX, 561
of light oils in the Rocky Mountain region, VII, 488
of North American salt domes, IX, 831
discussion, IX, 872
of oil, VII, 605
in northern mid-continent, review, VII, 454
kerogen and its relation to the, VIII, 301
of petroleum, note on the, VIII, 669
of salt domes, IX, 561
of Spindletop dome, IX, 605
of the Green River formation and its oil shale, IX, 247
Original source of oil in Colombia, X, 382
Oriskany sandstone, II, 131; III, 156; IV, 29; V, 366, 418
Osage County, Oklahoma, Burbank oil field, V, 502
geology, II, 118
oil fields, IV, 279
production, III, 407
structure, III, 407; IV, 151
Wilcox sand in, V, 399
Osage and Creek counties, Oklahoma, origin of the faults in, discussion, X, 727
Osborne, Clarence B., memorial of Arthur Eaton, VII, 461
theory to account for occurrence of oil in the vesicular cavities of igneous intrusions, VII, 288
Ostracoda, Eocene in Mexico, IX, 298
value in correlation, VIII, 545

Ostrea shale, II, 81; VI, 72
Oswego lime, II, 119, 123; IV, 174, 179; V, 130, 140, 399, 581; VI, 464
Otter sand, IV, 306
Otterville limestone, VI, 7
Ouachita Mountains, V, 14, 22, 38, 550, 631, 679; VI, 15, 182
Ouachita uplift, Oklahoma, X, 295
Ouray limestone, VI, 207
Overbeck, R. M., Schwennesen, A. T., and Dubendorf, H. H., *the Long Beach oil field and its problems, VIII, 403*
Ozark uplift, V, 22, 128, 153, 503
  Oklahoma, X, 295
Ozarkia, VI, 470
Ozocerite and naphtha on Lake Baikal, Siberia, IX, 811
Ozokerite, V, 382

P

Pacific Section of American Association of Petroleum Geologists, meeting, November, 1925, X, 100
  organization of, VIII, 532
Pacific Society of Petroleum Geologists, VIII, 839
Pack, R. W., discussion of origin of petroleum of California, X, 698
Pahasapa limestone, V, 189
Palangana, a characteristic American salt dome, IX, 548
Palangana dome, Texas, stratigraphic section, IX, 557
  structure and well map, IX, 543
Palangana oil field, V, 219
Paleogeography, III, 286, 294; V, 102, *541*
Paleontology, Avery Island dome, Louisiana, IX, 772
  Belle Isle dome, Louisiana, IX, 790
  Jefferson Island, Louisiana, IX, 760
  petroleum geology's debt to, VII, 612
Paleozoic, Alberta, VII, 157
  crystallines, V, 669
  New Mexico, IV, 95
  occurrences of oil in United States, VII, 60
  sediments, V, 172, 209, 269, 330, 375, 491, 552, 670
  South Dakota, VI, 552
Palestine dome, Texas, VI, 58, 329; IX, 839
  cap rock, X, 51
  geology, X, 48
  structure, X, 53
  topography, X, 47
Palo Pinto formation, III, 138; V, 157
Paluxy sandstone, III, 168; V, 310
Pampa de Clemesi formation, V, 599
Panama, stratigraphy and geology, III, 363; IV, 263
Panhandle anticline, Texas, cross-section, X, 737
  faulting, X, 741
Panuco district, Mexico, Foraminifera, X, 684
  fossils, X, 684
  production, X, 690
Panuco oil field, V, 465, 505; VI, 64, 91, 98
Panuco River Valley, Mexico, Cretaceous, X, 671
  Jurassic, X, 671
  relation to origin and accumulation of oil in Mexico, X, 667
  structure, X, 685
Panyity, Louis Samuel, review of his "*the oil and gas-bearing horizons of the Ordovician of Ohio*" *V, 104;* publication of same paper, *V, 609*
Paraffin, Lytton Springs oil field, Texas, X, 974
Paraffin dirt, II, 36; III, 89
  as an indication of petroleum, review, IX, 1118
Paria, Gulf of, structure, VI, 474
Park City formation, VI, 226
Parkman sandstone, V, 204
Parks, E. M., *migration of oil and water, a further discussion, VIII, 697*
  water analyses in oil production and some analyses from Poison Spider, Wyoming, IX, 927
Parks oil field, III, 49
Parmalee, Cullen W., review of his "Fuller's earth deposit at Olmstead, Ill.," VI, 155
Pasieczna limestone, Europe, VI, 526
Paskapoo sandstone, IV, 250
Paso Robles formation, Wheeler Ridge, California, X, 497
Patagonia, unconformities, IX, 181

Patton, Leroy T., and Sellards, E. H., *subsurface geology of the Big Lake oil field, X, 365*
Pawhuska limestone, I, 135; III, 259, 270; V, 547, 566, 581; VI, 320
Pawnee limestone, V, 297; VI, 465
Paxson, Roland B., and Barton, Donald C., *Spindletop salt dome and oil field, Jefferson County, Texas, IX, 594*
Payne sandstone, II, 78
Peabody oil field, IV, 255; V, 144, 507, 580; VI, 429
Pearl shale, II, 75
Pearsonia oil field, IV, 175
Pecan Gap chalk, Texas, IX, 1154, 1159; X, 20, 28, 42, 44
Pechelbronn oil field, Alsace, X, 409
  Oligocene, X, 409
Pechelbronn system of oil mining, X, 407
Pecos Canyon sandstone, IV, 99
Pedernal quartzite, V, 606
Pemberton, John Roy, *a résumé of the past year's development in Kentucky from a geologic standpoint, II, 38*
Pennsylvania, decline curves, IV, 210
  oil fields, VI, 40
  oil reserves, VI, 44, 570
  oil sands from, porosity, VIII, 738
  outlook for oil and gas, V, 357
  review of publication on, VI, 386
Pennsylvanian deposits west of the Nemaha Granite Ridge, Kansas, X, 205
  early, red beds in the Mid-Continent region, IX, 814
  sediments west of the Nemaha Granite Ridge, Kansas, discussion, X, 636
  Indiana, IX, 321
  Kansas, VIII, 446
  Kentucky, VIII, 630
  Montana, VII, 176; X, 987
  Oklahoma, VIII, 505, 596; X, 143, 645
  Rocky Mountain region, VII, 406
  Texas, X, 457, 461
  Tonkawa and Wilcox fields, Oklahoma, X, 885
  unconformities in the, X, 1303
Pennsylvanian paleogeography in the Henryetta District, Oklahoma, VII, 50
Pennsylvanian sections in Graham field, Oklahoma, VIII, 603
Pennsylvanian sediments, Arizona, VI, 47
  China, III, 101
  Colorado, VI, 88
  Healdton oil field, IV, 47
  Illinois, IV, 45
  Kansas, II, 110; IV, 256; V, 276, 508; VI, 70, 375, 549
  Kentucky, IV, 305; V, 522
  Mid-Continent, V, 543–84
  Mississippi, V, 495
  Montana, VI, 147
  Nebraska, VI, 88
  New Mexico, IV, 74, 96; V, 165, 606; VI, 49, 89
  Oklahoma, I, 134; III, 268; V, 34, 117, 133, 149, 175, 405, 408, 469; VI, 5, 55, 161, 233, 368, 423
  unconformities in, III, 257, 270
  Tennessee, V, 646
  Texas, III, 132; V, 377, 503; VI, 88, 151
  Utah, VI, 205, 207, 224, 244
Peoples sand, II, 121
Pepperburg, Leon J., review of John Suman's "petroleum production methods," V, 680
  thermal currents as a factor in oil accumulation, VII, 429
Percha shale, IV, 105
Permeability and absorption of oil and gas sands, apparatus for determining, IX, 442
Permian, Arizona and New Mexico, X, 819
  bibliography, footnotes, X, 819–51
  classification, X, 823
  Glass Mountains, Texas, X, 877
  India, IX, 1269
  Kansas, X, 786
  Oklahoma and northern Texas, correlation, X, 144
  Montana, VII, 175
  Oklahoma, X, 645, 786
  bibliography, footnotes, VIII, 322–38
  Panhandle fields, Texas, oil and gas in, VII, 242
  Robberson field, Oklahoma, VII, 635
  Rocky Mountain region, VII, 406
  Texas, X, 464
  Texas Panhandle, X, 735
  Tonkawa field, Oklahoma, VIII, 274
Permian age of Gulf Coast salt, X, 10
Permian fossils, Arizona, X, 825
  Kansas, X, 148
  Oklahoma, X, 148
  Texas, X, 148
Permian limestones and dolomites, Big Lake oil field, Texas, X, 374
Permian red beds, Big Lake oil field, Texas, X, 371

southwestern Oklahoma, VIII, 322
west Texas, IX, 1215
Permian sediments, China, III, 101
Colorado, VI, 89
Europe, I, 86
Kansas, II, 75, 111; IV, 184; V, 421, 508; VI, 70, 551
Mid-Continent, V, 548–84
Montana, IV, 314
New Mexico, I, 101; IV, 74, 95; *V*, 165, 329, *605;* VI, 87, 89
Oklahoma, II, 54–58, 114; III, 256, 263, 444; IV, 173; V, 32, 175, 327, 427, 469, 627, 628; VI, 54, 368, 413
Texas, I, 93; III, 25, 94, 117, 132, 170; IV, 270, 275; V, 14, 23, 154, 378, 419; VI, 88
Utah, VI, 89, 205, 210, 244
Wyoming, III, 357; V, 191, 408; VI, 88, 89
Permian strata in Grand Canyon, X, 824
Permian unconformities, III, 256
Permo-Carboniferous fossils, Western Australia, X, 1142
Permo-Carboniferous rocks of Northwest Basin, X, 1139
Perrine, Irving, *geological conditions in central Kansas, II, 70*
Perry, Gene, *subsurface structure of eastern Kentucky, VIII, 152*
Perryman sand, V, 402
Persia, V, 397
Egypt and Mexico, reflected buried hills in the oil fields of, X, 422
review of publication on, VI, 383
unconformities, X, 430
Persia-Mesopotamia, oil production in, IX, 1095
Persian oil fields, X, 428
Peru, geology and developments, V, 585
geology of the Tertiary and Quaternary periods in the northwest part of, review, VII, 443
oil fields, V, 585
Quaternary, VII, 443
review of publication on oil production, VI, 261
Tertiary, VII, 443
Peru sand, VI, 465
Petite Anse, Five Islands, Louisiana, IX, 836, 842
Petrography of salt dome cap rock, IX, 42
Petrole, les gisements de, review, VII, 579
Petroleum. (See Oil)
in Argentina and Bolivia, observations on the occurrence and origin of, X, 853
California, the relation of Foraminifera to the origin of, X, 697
Colombia, I, 156
consumption and uses of, IV, 137
effect of pressure on the migration and accumulation of, X, 917
from Saratoga, Texas, analysis of, IX, 280
from Welsh, Louisiana, analysis of, IX, 477
in a fossil cast, inclusion of, IX, 667
International Exposition, VIII, 102
metamorphism of, VII, 608
occurrence of, European domes, IX, 330
origin of, IV, 263; VIII, 669; IX, 158
relation of oil shale to, IX, 1127
review of new publication on world's resources, VI, 261
review of new treatise on, VI, 260
review of publication on estimating reserves, VI, 261
Roumania, IX, 1188
Petroleum accumulation and faulting at Mexia, Texas, VII, 226
Petroleum and oil shale, origin of, suggestive evidence on, VII, 67
Petroleum deposits important at unconformities, X, 422
Petroleum development and technology in 1925, review, X, 1309
Petroleum developments of Europe and Asia, status of Americans in, IX, 1089
Petroleum engineer, relation to future production, IV, 137
Petroleum engineering, review, IX, 1299
the application of the alignment chart to, IX, 803
Petroleum exploration, the value of microfossils in, VIII, 539
Petroleum geologists, influence of, on business, VII, 615
organization of, VII, 623
Petroleum geology, as a profession, VII, 612
attitude of the oil operators toward, VII, 613
elements of, review, IX, 362
handbook on, by Jean Chautard, VII, 579
publications on, VII, 621
research, VIII, 475
two decades of, 1903–22, VII, 603
Petroleum geology and the world war, VII, 619
Petroleum geology's debt to paleontology, VII, 612

Petroleum industry, handbook of, review, VII, 588
review of new handbook of, VI, 260
Petroleum possibilities in southeastern Idaho, review, VII, 197
of Costa Rica, review, VII, 455
Petroleum prospecting in Mississippi, VII, 684
Petroleum resources, foreign, bibliography of, VII, 593, 698; VIII, 352, 678, 834; IX, 368, 672, 815, 911
Petroleum show, Geologists-International, VIII, 685
Petroleum technologists, institution of, IX, 406
Petrolia oil field, III, 49, 93; IV, 8, 121
Pew, J. Edgar, *oil industry, the; its importance and some of its problems, VII, 277*
Phalen, William Clifton, the science of petroleum geology, V, 674
Phantograph model, X, 1300
Phelps, Robert W., and Lake, F. W., the application of the alignment chart to petroleum engineering, IX, 803
review of their "petroleum engineering," IX, 1299
Philippine Islands, review of publications on, VI, 263, 387
Phosgene, V, 621
Phosphate rock, V, 191
Physiography, Avery Island, Louisiana, IX, 763
Barbers Hill field, Texas, IX, 960
Batson oil field, Texas, IX, 1279
Bayou Bouillon dome, Louisiana, IX, 1285
Belle Isle dome, Louisiana, IX, 784
Cote Blanche dome, Louisiana, IX, 781
Damon Mound, Texas, IX, 511
Hockley dome, Texas, IX, 1034
Jefferson Island, Louisiana, IX, 759
Jennings oil field, Louisiana, X, 74
Pine Prairie dome, Louisiana, IX, 739, 742
south Texas domes, IX, 539
Weeks Island dome, Louisiana, IX, 776
Pico formation, Los Angeles Basin, California, X, 760
Piedras Pintas and Palangana, structure and well map, IX, 543
Piedras Pintas dome, Texas, I, 49; IX, 553
stratigraphic section, IX, 557
Pierce Junction oil field, I, 49
Piercement fold, IX, 1239
Pierre shale, Colorado, VI, 90
Great Basin, V, 25
Kansas, II, 73; VI, 70
New Mexico, IV, 77, 97
Texas, V, 10
Wyoming, V, 202
Pikes Peak granite, II, 85
Pine Island gas, Louisiana, IX, 171
Pine Island oil field, IV, 131; VI, 184, 259, 477
unconformities, VII, 381
Pine oil pool, III, 273
Pine Prairie dome, Louisiana, IX, 738
age of, IX, 752
bibliography of, IX, 755
cap rock, IX, 749
geology, IX, 744
origin of, IX, 751
physiography, IX, 739, 742
stratigraphic section, IX, 750
Pine Prairie oil field, I, 52
Pine River formation, VI, 116
Pink lime, II, 119; V, 402
Pirin oil field, V, 603
Pitkin limestone, III, 76, 272; V, 121, 152, 344, 404, 549
Pittsburg coal, II, 131; V, 82, 366
Plaine shale, V, 259
Planetable methods, VIII, 47
Plant fossils, value in correlation, VII, 186
Pleistocene, California, VI, 306; VII, 59; VIII, 793
Gulf Coast, I, 35
Hockley dome, Texas, IX, 1045
Los Angeles Basin, California, X, 761
Louisiana, V, 631; VI, 180; X, 227
Minnesota, X, 196
Mississippi, V, 491
Panama, IV, 263
Saratoga field, Texas, IX, 167
southern California, VII, 418
Texas, V, 218, 384; IX, 19
Wyoming, V, 210
Pleistocene and Pliocene history of the Baldwin Hills, Los Angeles County, California, X, 502
Pleistocene fossils, Baldwin Hills, California, X, 508
Pliocene, Borneo, V, 417
California, VI, 306, 482; VII, 59
Colombia, X, 401
Europe, VI, 526
Gulf Coast, VII, 59
Hockley dome, Texas, IX, 1045
Los Angeles Basin, California, X, 760

Louisiana, V, 631; VI, 180
Panama and Costa Rica, III, 366
Roumania, IX, 1171
Saratoga Field, Texas, IX, 267
southern California, VII, 418
sub-Carpathian zone, IX, 1240
Texas, V, 223; IX, 21
Texas and Louisiana, IX, 80
Texas coast region, VIII, 437
Wheeler Ridge, California, X, 497
Pliocene and Pleistocene history of the Baldwin Hills, Los Angeles County, California, X, 502
Pliocene fossils, Los Angeles Basin, California, X, 761
Plummer, Frederick Byron, a new compass for geologists, V, 511
crude oils of Borneo, V, 417
preliminary paper on the stratigraphy of the Pennsylvanian formations of north-central Texas, III, 132
progress in petroleum geology, V, 413
Plummer, Helen, review of Jean Chautard's "Les Gisements de Petrole," VII, 579
Plunkett oil field, III, 358
Porters Creek formation, V, 654
Poison Spider, Wyoming, water analyses in oil production and some analyses from, IX, 927
Poland, review of publication on, VI, 384
Ponca City oil field, IV, 176; V, 118, opp. 128, 138, 325, 568
Pontic Europe, VI, 526
Ponton, Gerald M., and Whitehurst, John W., *Spring Hill–Sarepta gas field, Louisiana, VII, 546*
Pontotoc series, VI, 161
Oklahoma, map, IX, 985
the extension of a portion of the, around the western end of the Arbuckle Mountains, IX, 983
Porcelainite, V, 92
Porcupine dome, V, 269
Pore space, elimination of, X, 1039
forces effective in reducing, X, 1043
methods for the determination of, VIII, 727
Porosities of natural sediments, X, 1050
of outcrop samples, X, 1051
of shale, X, 1052
Porosity, a quick method for determining, X, 931
as an index of pressure metamorphism, X, 1071
change in, as an index of vertical shortening, X, 1047
Melcher's method for determining, X, 937
of oil and gas sands, VIII, 772
of Wyoming, VIII, 739
of oil sands, V, 18, 211, 319; VI, 143
of Oklahoma, VIII, 762
review of publication on, VI, 386
of sediments, initial, X, 1039
of the rock, Lytton Springs oil field, Texas, X, 965
Porosity and crushing strength, value of average regional, in predicting oil, gas, and ground water possibilities, X, 950
as indices of regional alteration, X, 939
Porosity determinations, apparatus, X, 931
a soxhlet extractor for, X, 998
Porphyry at Amarillo, VII, 434
Port Hudson formation, VI, 180
Portuguese West Africa, unconformities, VII, 479
Post-Permian, Oklahoma, I, 136
Potash, in Permian of Texas, I, 106; VI, 110
Potash salts and fossil algae, discovery of, in Texas salt dome, IX, 348
Potrero del Llano-Alezan oil pool, V, 453, 506
Pottsville sandstone, II, 40; III, 148; IV, 308; V, 38, 169, 522, 543, 553, 556
Potwin oil field, V, 422
Powder River oil field, V, 194
Powell oil field, III, 96
Powers, Sidney, Cotton Valley oil and gas field, Webster Parish, Louisiana, VIII, 244
editorial, on estimates of petroleum reserves of U.S., V, 411
on pessimism in geology, V, 412
on scientific and business geologists, V, 332
explanation of domes in the Amarillo field, VII, 239
interior salt domes of Texas, X, 1
measuring meter for drilling wells, V, 518
new geological map of Oklahoma, VIII, 240
oil well in Scotland, VI, 376
oil well in southern France, IX, 346
Oklahoma geological map, IX, 920
Ordovician oil at Healdton, VI, 476

petroleum geology—its past and its future —foreword, V, 445
reflected buried hills in the oil fields of Persia, Egypt, and Mexico, X, 422
review of Bureau of Mines Bulletin, "Eldorado, Arkansas, oil and gas field," VI, 554
review of Bureau of Mines' "petroleum engineering in the Deaner oil field, Okfuskee County, Oklahoma," V, 687
review of Bureau of Mines' reports on Oklahoma oil fields, V, 426
review of Cox, Dake, and Mullenburg's "field methods in petroleum geology," V, 425
review of E. M. Kindle and T. O. Bosworth's "oil-bearing rocks of Lower Mackenzie River Valley," V, 524
review of National Research Council's "list of manuscript bibliographies in geology and geography," VI, 488
review of R. A. Smith's "oil prospecting in Michigan," VI, 381
review of several papers on the occurrence of petroleum in Mackenzie River region, Canada, VII, 303
review of Sir Boverton Redwood's "a treatise on petroleum," VI, 382
review of W. J. Wright's "geology of the Moncton map area," VII, 302
the number of American geologists, V, 499
the Oklahoma geological map, IX, 920
the Sabine uplift, La., IV, 117

Powers, Sidney, and Hopkins, Oliver B., theory of origin of salt domes, IX, 859

Pratt, Wallace E., a new Gulf Coast salt dome, VI, 252
a note on supposed evidence of the volcanic origin of Gulf Coast salt domes, V, 91
geologic structure and producing areas in north Texas petroleum fields, III, 44–70
oil and gas in the Texas Panhandle, VII, 237
oil at Luling, Caldwell County, Texas, VII, 182
the present excitement at Fort Stockton, Texas, V, 88
the recent discovery at El Dorado, Arkansas, V, 90
two new salt domes in Texas, X, 1171

Pratt, Wallace E., and Lahee, F. H., *Faulting and petroleum accumulation at Mexia, Texas, VII, 226*

Pre-Cambrian, Arizona, VI, 47
Belgian Congo, V, 672
Kansas, V, 146
New Mexico, IV, 74, 96; V, 605
Oklahoma, III, 255; V, 33; VI, 6, 413
South Dakota, VI, 552
Texas, IV, 121; V, 374
Wyoming, V, 51, 208

Pre-Cambrian rhyolite discovered in well in northwestern Arkansas, IX, 1115
Predictions of the future of oil pools by early wells, X, 747
Pre-Pennsylvanian producing horizons, Kay County, Oklahoma, IV, 173
Pre-Permian, Robberson field, Oklahoma, VII, 635
Pressure, the effect of, on the migration and accumulation of petroleum, VIII, 527; X, 917

Pressure apparatus, IX, 443
Pressure experiments, X, 918
Preston formation, II, 62; V, 307; VI, 181
Preston oil field, III, 273
Price, W. Armstrong, *caliche and pseudo-anticlines, IX, 1009*
gas and oil near Edna, Jackson County, Texas, X, 905

Price's dome, Louisiana, X, 265
geology, X, 266
structure, X, 271
topography, X, 266

Prices of crude oil, IX, 799
Prinz Adelbert dome, IX, 1255
Problem of continental drift, résumé, X, 1002
of the natural reduction of sulphates, X, 1270

Problems of North American salt domes, IX, 1232
of description, IX, 1232
of theory, IX, 1232

Problems of the oil industry, VII, 277
Problems of Tonkawa field, Oklahoma, VIII, 296
Problems presented by the Five Islands, Louisiana, IX, 792
Producing horizon, age of, Rice County, Kansas, X, 197
Production, Archer County oil field, Texas, X, 464

Batson oil field, Texas, IX, 1281
Big Lake oil field, Texas, X, 366
Burbank oil field, California, VIII, 588
Burkett-Seeley pool, Kansas, VII, 487
by countries, 1903 and 1922, VII, 604
by states, 1903 and 1922, VII, 605
California, VIII, 18, 212, 227
bibliography, footnotes, VIII, 219–35
Cotton Valley, Louisiana, oil field, IX, 883
crude oil at Pechelbronn, Alsace, X, 412
decline in Ranger oil field, IV, 166
decline of, Lytton Springs field, Texas, X, 972
decline curve method of prediction, X, 747
explanation of the large initial, of some wells of the Haynesville Field, Louisiana, VII, 295
future, South Dayton dome, Texas, IX, 665
gas, Monroe field, Louisiana, VII, 570
Texas Panhandle, X, 743
Goose Creek field, Texas, IX, 295
Graham field, Oklahoma, VIII, 595, 613
Huntington Beach field, California, VIII, 16, 45
increased by flooding, IX, 801
Jennings field, Louisiana, X, 87
Long Beach field, California, VIII, 418, 420, 423
Los Angeles Basin, California, X, 767
Luling field, Texas, IX, 652
Lytton Springs oil field, Texas, X, 965
Okha, Sakhalin Island, X, 1169
older California fields, VIII, 2
Osage County, Oklahoma, VI, 464
Panuco district, Mexico, X, 690
Pine Prairie dome, Louisiana, IX, 754
Rainbow Bend oil field, Kansas, IX, 978
Robberson oil field, Oklahoma, VII, 636
Santa Fe Springs oil field, California, VIII, 10, 145, 178, 187, 188
Saratoga oil field, IX, 280
Sayre oil field, VIII, 347
Shensi, China, X, 1109
Signal Hill oil field, California, VIII, 14
South Mountain oil field, California, VIII, 811
Spindletop dome, IX, 609
Texas Panhandle, X, 744
Thomas oil field, Oklahoma, X, 644, 646
Tonkawa oil field, Oklahoma, VIII, 283; X, 891
United States, III, 29; IV, 137
Ventura (Avenue) oil field, California, VIII, 829
Wheeler Ridge oil field, California, X, 499
Production and consumption, California, VIII, 19
Production and development, Archer County oil field, Texas, X, 474
Production chart, Tonkawa field, Oklahoma, VIII, 298
Production curve, annual, Goose Creek oil field, IX, 290
Edgerly field, IX, 503
Jennings field, X, 88, 90
Saratoga field, IX, 266
Production curves, Barbers Hill, Texas, IX, 970
Blue Ridge fields, IX, 312
Damon Mound, Texas, IX, 530
estimation of underground oil reserves by oil-well, review, IX, 361
Welsh oil field, Louisiana, IX, 475, 476
Production problems, Long Beach field, California, VIII, 412
Production-porosity curve, Burbank field, Oklahoma, VIII, 768
Productive zones in Rocky Mountain fields, VII, 404
Prommel, H. W. C., *geology and structure of portions of Grand and San Juan counties, Utah, VII, 384*
Prospecting, review of publication on problems, VI, 388
Prothro dome, Louisiana, IX, 904; X, 245
geology X, 247
Midway formation, X, 249
structure, X, 252
topography, X, 246
Wilcox formation, X, 249
Prue sand, VI, 471
Prutzman, Paul W., *chemical characteristics of California petroleums, VIII, 560*
Pseudo-anticlines and caliche, IX, 1009
Publication of association papers in trade journals, X, 1004
Publications, Oklahoma Geological Survey, IX, 708
Pueblo formation, III, 138
Puente formation, VI, 306
Puente Hills oil field, VI, 303
Pulliam formation, V, 26
Purdy, Wesley, *a summary of the Canadian foothills belt, IV, 249*
Purgatoire formation, IV, 75, 96; VI, 74
Pusi oil field, V, 597, 601
Pycnometer, VIII, 731

Q

Quadrant formation, V, 257, 327; VI, 148
east-central Montana, X, 986
Montana, geologic history, X, 993
oil possibilities, X, 995
thickness, X, 991
Quapaw sandstone, II, 122
Quartermaster formation, I, 103; II, 74, 114; III, 170; IV, 270
Quartzite, V, 67, 137, 375, 509, 605, 672; VI, 106
Quartzite pebbles at the base of the Lance formation in Montana, IX, 344
Quaternary, Alaska, VI, 295
Cuba, II, 144
Kansas, II, 82; VI, 69
Louisiana, VI, 180, 249, 251; X, 227
New Mexico, IV, 77
Oklahoma, III, 255; V, 33
Peru, VII, 443
Roumania, IX, 148, 1171
sub-Carpathian zone, IX, 1240
Tennessee, V, 647
Wheeler Ridge, California, X, 497
Wyoming, V, 211
Queensland, drilling in, review, VII, 196
Quinn oil field, VI, 260
Quitman Mountains, V, 15–23

R

Radcliffe, D. H., memorial of Carl Bernard Hummel, VII, 715
Radioactivity and oil field location, VII, 290
Radiolaria in California oil fields, X, 899
Radiolarians, Miocene, in California, IX, 234
Radium water, V, 137
Rae, Colin Campbell, *organic material of carbonaceous shales, VI, 333*
discussed, VII, 440
Ragland sand, IV, 307
Rainbow Bend oil field, Kansas, IX, 974
Kansas, geology, IX, 975
production, IX, 978
structure, IX, 976
Ralston formation, V, 580
Ramsay, William, review of his "the significance of nickel in petroleum," VIII, 832
Ramsey oil field, V, 295, 369; VI, 468
Ramsey sand, VI, 465
Rangeley oil field, V, 202
Ranger limestone, III, 137, 138
Ranger oil field, III, 39, 49, 164; IV, 8, 160
decline in production, IV, 227
yield per acre, IV, 221
Rattlesnake beds, V, 27
Rawlins-Lost Soldier district, Wyoming, oil and gas in, VII, 145
oil fields of, VII, 131
stratigraphy, VII, 138
unconformities, VII, 138, 139
Rayburn's dome, Louisiana, X, 229, 260
geology, X, 262, 264
structure, X, 265
topography, X, 262
Reagan sandstone, V, 34; VI, 6
Recent, Texas, IX, 19
Recent uplifts, V, 554
Recrystallization, a cause of the compaction of sediments, X, 1038
Red beds, age of, in Mid-Continent region, VII, 696
early Pennsylvanian, in the Mid-Continent region, IX, 814
near the base of the Cherokee shales, IX, 350
New Mexico, IV, 54, 74, 99; V, 329
Oklahoma, II, 114; III, 291; *V,* 34, 44, *173,* 326, 428, 470, 569, 627, 628; VI, 7, 54, 88, 367
Permian, correlation in Kansas, Oklahoma, and Texas, X, 152
of Coke County, West Texas, an outcrop of surface oil sand in, IX, 1215
of southwestern Oklahoma, new classification of, VIII, 322
Texas, IV, 270; V, 23, 154, 379
Wyoming, X, 304
Red-bed bleaching, discussion, X, 636
Red-bed bleaching, some features of, X, 304
Redd sand, V, 293
Reeside, John B., Jr., review of his "fauna of so-called Dakota formation, north-central Colorado and southeastern Wyoming," VII, 306
Red Bluff formation, II, 74
Red clays, Europe, VI, 526
Red Fork sand, V, 290, 402

Red Pennsylvanian, V, 427
Red River dispute, settlement of, VII, 192
Red River-Crichton oil field, II, 66
Red River-De Soto oil field, IV, 127; VI, 186, 192, 478
Redfield, A. H., review of his "petroleum possibilities of Costa Rica," VII, 455
Redondo oil field, VI, 303
Redwall limestone, VI, 47, 207
Redwood, Sir Boverton, review of his "a treatise on petroleum," VI, 382
Reed, Lyman C., *the Welsh, Louisiana, oil field, IX, 464*
Reed, R. D., *Miocene paleogeography in the central Coast Ranges, X, 130*
Pennsylvanian paleogeography in the Henryetta District, Oklahoma, VII, 50
Reeves, John R., accumulation of oil, IX, 1023
inclusion of petroleum in a fossil cast, IX, 667
production of oil in Indiana, IX, 317
review of his "New Albany shale of Indiana," VII, 85
review of Ralph H. McKee's "oil shale," X, 452
value of relief models and a simple method for their construction, IX, 340
References. (See Bibliography)
Reflected buried hills in the oil fields of Persia, Egypt, and Mexico, X, 422
Reger, David Bright, *oil and gas development in West Virginia for the year 1920, V, 80*
recent oil and gas development in West Virginia, IV, 27
Regional alteration, porosity and crushing strength as indices of, X, 939
Regional alteration of coals, bibliography, footnotes, X, 941
Relief models, value of, and a simple method for their construction, IX, 340
Renick, B. Coleman, *airplanes for geologic explorations in inaccessible regions, IX, 947*
Report, suggested outline for consulting geologists, I, 127
Reservoir rocks, California oil fields, X, 895
Rettger, R. E., and Collingwood, D. M., *Lytton Springs oil field, Caldwell County, Texas, X, 953*
Reverse thrust faulting in the Rocky Mountain region, X, 105
Reviews, suggestions for writing, VII, 88
Revue de Géologie, review, X, 98
Reynosa Escarpment, VII, 537
relation of, to the oil and gas fields of Webb and Zapata counties, Texas, VII, 532
Reynosa formation, I, 36; IV, 130
Rhaetic formation, Argentina, X, 856
Rhenish folding, effect of, IX, 1252
Rhenish line of salt domes, IX, 1259
Rhine, Elton, *collapsible bit and coring device for rotary drilling, V, 519*
Rhodes sand, V, 404
Rhyolite, pre-Cambrian, discovered in well in northwestern Arkansas, IX, 1115
Rich, John Lyon, *a probable buried mountain range of early Permian age east of the present Rocky Mountains in New Mexico and Colorado, V, 605*
discussion of theories of origin of salt domes, IX, 873
further notes on the hydraulic theory of oil migration and accumulation, VII, 213
further observations on shoestring oil pools of eastern Kansas, X, 568
shoestring sands of eastern Kansas, VII, 103
Richards, Ralph W., *commercial oil geology east of the Mississippi, V, 460*
Richfield oil field, V, 458; VI, 303
Richmond formation, IV, 45
"Rim Rock" of the High Plains, VII, 72
Rinne, F., explanation of salt stocks in Germany, IX, 435
Ripley formation, I, 153; V, 492, 655
Rising Star oil field, IV, 160
Roark, Louis, and Bartram, John G., *the Healdton field, Oklahoma, V, 469*
Robberson field, Oklahoma, V, 343; VI, 23; *VII, 625*
stratigraphy, VII, 627
structure, VII, 630
Robertson, Glenn D., and Jensen, Joseph, *new development problems and their solution in southern California oil fields, VIII, 135*
Robertson oil field, V, 343, 454; VI, 23

Robinson, Ernest Guy, *Upper Cretaceous paleogeography of Montana, VIII, 554*
triangulation targets, VIII, 512
Robinson, Ernest Guy, and Bauer, C. Max, *comparative stratigraphy in Montana, VII, 159*
Robinson, W. I., care of well samples, VII, 432
Robinson, W. I., and Eldridge, W. J., correlating gumbos, IX, 906
Rochelle conglomerate, III, 142
Rock classification, review of paper on, by drillers, VI, 390
Rock Creek limestone, II, 122
Rock Creek oil field, IV, 37; V, 198, 200
Rock flowage, the effect of, on the kerogen of oil shale, IX, 158
Rock flowage experiment, IX, 1134
Rockcastle sandstone, V, 648
Rockwell, Fred Gore, and Shannon, C. W., *new oil and gas development in Oklahoma, IV, 277*
Rocky Mountain fields, deeper drilling in the, VII, 400
productive zones in, VII, 404
Rocky Mountain region, VII, 95, 131
faulting in the, X, 105, 113
oil accumulation in, VII, 661
oil shale of, review, VII, 454
origin of light oils in, VII, 488
stratigraphy, VII, 159
unconformities, VII, 62, 64
Rocky Mountain Section of the American Institute of Mining and Metallurgical Engineers and American Mining Congress, joint meeting with the American Association of Petroleum Geologists, X, 640
Rogers, G. Sherburne, *some oil field waters of the Gulf Coast, III, 310*
theory of origin of salt domes, IX, 856
Ropianka beds, Europe, VI, 526
Rosalia oil field, V, 422
Rose dome, V, 73
Ross, Clarence S., a method of distinguishing fused cores, VI, 372
beds of volcanic material as key horizons, IX, 341
evidences of slumping previous to consolidation in the Pennsylvanian of Oklahoma, VIII, 505
Ross, Clarence S., and Miser, Hugh D., pre-Cambrian rhyolite discovered in well in northwestern Arkansas, IX, 1115
Ross, J. S., review of his "preliminary report on Tonkawa, Oklahoma, oil field," VII, 197
Rotary drilling, V, 519
advantages, VIII, 143
in California, VIII, 135
review of paper on reverse return method, VI, 391
on use of calcium carbonate, VI, 390
Rotary method, logging wells drilled by the, VIII, 641
Rotary tools, core drilling with, in California, VII, 250
Roumania, geologic sketch map, showing location of salt domes, IX, 1238
geology of the salt domes in the Carpathian region of, IX, 1165
nature of salt of, IX, 1179
notes on natural gas fields of Transylvania, VIII, 202
petroleum in, IX, 152, 1188
salt domes, bibliography, IX, 1198
salt in, IX, 148
stratigraphy, VI, 523
Tertiary, IX, 152
Roumania and the Gulf Coast, comparison of salt structures, IX, 155
Roumanian and German salt domes, the American salt-dome problems in the light of the, IX, 1227
Roumanian oil fields, IX, 145, 1089
bibliography, IX, 156
geology, IX, 146
stratigraphy, IX, 147
Roumanian petroleum industry during the first quarter of 1922, review, VII, 303
Roumanian salt domes, IX, 1237
bearing on problems of the American salt domes, IX, 1246
bibliography on, IX, 1266
theories of origin, IX, 1243
Round Butte dome, V, 61
Row, Charles H., *an experiment with a drop auger, X, 722*
Rowe, J. P., *possibility of oil and gas in Montana, IV, 313*
Rubey, W. W., discussion of oil possibilities of the Black Hills region, X, 1177
wildcat oil exploration in south-central Arkansas, VI, 350

Rubey, W. W., and Heald, Kenneth Conrad, El Dorado oil field in Arkansas not on an anticline, VI, 358
Rubidoux sandstone, I, 140
Ruby, Glen M., *oil saturation in certain sandstones, VII, 473*
Ruedemann, Paul, review of Willard W. Cutler, Jr.'s "estimation of underground oil reserves by oil-well production curves," IX, 361
some graphical methods for appraising oil wells, VI, 533
Ruedemann, Paul, and Gardescu, Ionel, *estimation of reserves of natural gas wells by relationship of production to closed pressure, VI, 444*
Rumania. (See Roumania)
Russell, William L., *a quick method for determining porosity, X, 931*
porosity and crushing strength as indices of regional alteration, X, 939
review of his "the possibility of oil in western Ziebach County," X, 638
Russell, William L., and Hartnagel, C. A., *the oil fields of New York State, IX, 798*
Russia, petroleum industry in, VII, 447
review of publication on, VI, 384
Russian oil fields, water troubles in, review, VII, 586
Rustler dolomite, V, 89
Rustler limestone, New Mexico, X, 848

S

Sabine uplift, IV, 117; V, 552, 557; VI, 15, 59, 182, 249, 252; VII, 179
Saddle Creek bed, III, 143
Saddlehorse gypsum, IV, 270
Sage Hen limestone, V, 264
St. Clair, Stuart, *oil geology of Warren County, Kentucky, VI, 24*
review of his "oil geology of Warren County, Kentucky," V, 100
St. Clair marble, IV, 181; V, 121, 406
St. Joe limestone, IV, 181; V, 122, 175
St. John formation, VI, 116
St. Louis limestone, IV, 45; V, 100, 123, 168, 647; VI, 24
St. Martin Parish oil field, II, 22
St. Marys sandstone, IV, 250
St. Maurice beds, Louisiana, X, 237, 281
St. Maurice formation, IV, 130; VI, 180, 350
St. Peter sandstone, IV, 46; V, 122, 611–17; VI, 374
Ste. Genevieve formation, IV, 45, 308; V, 123; VI, 24
Sakhalin, North (Russian), geology of the oil fields of, X, 1150
Sakhalin Island, drilling methods at, X, 1166
oil prospecting on, by Japan in 1919–25, X, 1163
production of oil at Okha, X, 1169
Salado Arch, Mexico, structure, IX, 131
Nuevo Leon, and Tamaulipas, Mexico, a reconnaissance study of the, IX, 123
Salamanca sandstone, V, 359
Sal del Rey, geology, IX, 584
salt at, IX, 586
salt lake, Texas, IX, 581
Salines in Louisiana, X, 218
Salisbury, Rollin D., memorial of, VI, 563
Sallyards oil field, V, 276, 280, 424; VI, 321
Salt and oil, relation between, IX, 152
Salt anticline, IX, 832
Salt anticlines in Germany, IX, 424, 437
Salt at Avery Island, Louisiana, IX, 768
Salt basin, V, 24
Salt beds in Germany, IX, 424
Salt brine, V, 168
Salt core, IX, 832
Blue Ridge dome, IX, 308
Damon Mound, IX, 522
Salt cores at the Five Islands, Louisiana, IX, 792
Salt Creek oil field, Wyoming, III, 273; IV, 37; V, 51, 200, 203; VI, 514
faulting in, VII, 100
preliminary report on water conditions in the first Wall Creek sand, VIII, 492
Salt dome, Bayou Bouillon, St. Martin Parish, Louisiana, IX, 1283
Belle Isle, Louisiana, IX, 786
Big Hill, Jefferson County, Texas, IX, 590, 711
Blue Ridge, Texas, IX, 304
Bryan Heights, Texas, IX, 613
Hockley, Texas, VII, 297; *IX, 1031*
Many, Sabine Parish, Louisiana, IX, 170

Pine Prairie, IX, 738
Prothro, Bienville Parish, Louisiana, IX, 904
Section 28, St. Martin Parish, Louisiana, IX, 1290
South Dayton, Texas, IX, 655
Spindletop, Texas, IX, 594
Stratton Ridge, Texas, IX, 1
the Sulphur, Louisiana, IX, 479
Salt-dome alignment, IX, 871
Salt-dome cap rock, IX, 42
hauerite in, X, 531
sequence of types of rocks, IX, 75
Salt-dome intrusion, tectonics, IX, 1179
Salt-dome origin, American theories, IX, 835
deposition from solution theories, IX, 842
Salt dome problems, American, in the light of the Roumanian and German salt domes, IX, 1227
American, outline, IX, 1232
Salt-dome studies, European, chronology of, IX, 326
Salt-dome waters, chemical relation of, IX, 38
Salt domes, I, 54; II, 16; III, 243, 310; *V*, 28, 91, 92, 102, 212, 216, 226, 334, 397, 495, 512, 569, VI, 58, 252, 259; VII, 297; *IX, 1, 42, 134, 263, 304, 326*, 348, *417, 479, 536, 590, 594, 613, 655, 711, 738, 756, 831, 958, 1031, 1165, 1227, 1277, 1283, 1290; X, 72, 217*
age of Gulf Coast, I, 75
American, structure, IX, 548
associated with anticlines, IX, 1266
bibliography on German, IX, 1267
on Roumanian, IX, 1266
on Transylvanian, IX, 1267
Carpathian and sub-Carpathian, IX, 1237
characteristics, X, 77
European, I, 85; IX, 328
faulting in, I, 84, 89
geologic sketch map of Roumania showing location of, IX, 1238
German, bibliography of maps of, IX, 1268
Germany. V, 227; IX, 1252
Gulf Coastal Plain, Louisiana and Texas, X, 1
in the Carpathians, age, IX, 1194
geology of, IX, 1165
interior, of Louisiana, X, 217
of Texas, X, 1
table of characteristics, X, 224
Isthmus of Tehuantepec, X, 1
Louisiana, X, 14
Mexico, VI, 60
northwest Europe, structure of, as revealed in salt mines, IX, 326
origin of, IX, 561
origin of North American, IX, 831, 843, 853, 864, 872
bibliography, footnotes, IX, 833–73
relation to folds and fracture lines of Carpathian Mountains, IX, 1178
review of publications on, VI, 385
Roumania, bibliography, IX, 1198
Roumanian, IX, 1237
sulphur waters in, IX, 35
Texas, III, 86–90; *IX, 536;* X, 14, 1171
age, IX, 560
bibliography of, footnotes, X, 3–58
Texas and Louisiana, similarity to German and Roumanian, IX, 1262
thickness of salt, I, 83, 89
Transylvania, VIII, 205; IX, 1192
Salt formation, Europe, VI, 526
Salt in Roumania, IX, 148, 1179
origin, IX, 150
Salt Lake oil field, California, VI, 303
Salt masses of Germany, the upthrust of, IX, 417
bibliography, IX, 438
Salt of the Carpathians, age of, IX, 1189, 1196
Salt Plain formation, II, 74
Salt production, Avery Island, Louisiana IX, 773
Jefferson Island, Louisiana, IX, 761
Weeks Island, Louisiana, IX, 779
Salt sand, III, 265; V, 126, 129, 400, 404, 561; VI, 318
Salt stocks in Germany, IX, 424
Salt structures, Isthmus of Tehuantepec, Mexico, IX, 834
outside of North America, IX, 833
Texas-Louisiana, IX, 832
Salt water, V, 82, 490
analysis from various oil fields, III, 326
connate in sandstone, IV, 33
effect on accumulation of oil and gas, II, 172
Gulf Coast region, III, 310
review of paper on chlorides in, VI, 387
Urschel oil pool, VI, 426
Salt Works salt dome, I, 81, 84
Salt-flowage theory of origin of North American salt domes, IX, 861

Sal Vieja, geology, IX, 584
salt at, IX, 586
salt lake, Texas, IX, 581
San Andreas limestone, V, 568, 607; VI, 211, 224
San Angelo formation, III, 117
San Felipe formation, Mexico, X, 675
San Felipe series, VI, 91
San Joaquin Valley, California, organic shales in the southern end of, IX, 228
unconformities, VIII, 31
San Joaquin Valley oil fields, V, 458
a comparative study of the, VIII, 29
San Juan Basin, New Mexico, hydraulic accumulation of oil in, VII, 216
San Juan oil field, VI, 48, 211, 213, 217, 224, 245
San Miguel beds, V, 26
San Pedro formation, VI, 306
Sand conditions, Black Hills region, X, 805
Sands, J. M., *Burbank field, Osage County, Oklahoma, VIII, 584*
Sandstone inclusion in salt in mine on Avery's Island, VIII, 674
Sandstones, productive, in the Wyoming oil fields, VII, 491
Sandy Hook, V, 477
Sanga-Miri oil field, V, 417
Sanitation, review of publication on—in oil camps, VI, 389
Santa Barbara County, California, oil shale in, VIII, 459
Santa Fe Springs oil field, California, VI, 303; *VIII, 178*
production, VIII, 10
review of publication on, VI, 390
structure, VIII, 179
Santa Maria-Lompoc oil field, V, 181, 458
Santa Susana oil field, V, 459
Sapulpa group, V, 283
Saratoga field, Texas, IX, 263
geology, IX, 266
oil and gas, IX, 276
production, IX, 280
Saratoga salt dome, I, 46; II, 34
cross-sections of, IX, 271
Sarmas gas field, Transylvania, VIII, 208
Sarmatien, Europe, VI, 526
Saugus formation, Los Angeles Basin, California, X, 761
Savanna sandstone, III, 268; V, 34, 290, 549, 562; VI, 13
Sawatch sandstone, II, 85
Sawtelle, George, *Batson oil field, Hardin County, Texas, IX, 1277*
Sawyer, Roger W., *areal geology of a part of southwestern Oklahoma, VIII, 312*
Sayre field, Beckham County, Oklahoma, VIII, 347
Schweydar-Bamberg types of Eötvos torsion balance, X, 1201
Scientific papers, presentation of, VII, 87
Schist, Los Angeles Basin, California, X, 755
Schmidt, Adolf, design of field balance, X, 1190
Schneider, H. G., producing sands in the Smackover, Arkansas, field, IX, 1116
Schooler Creek formation, VI, 116
Schramm, E. Frank, *notes on the oil shales of southwestern Wyoming, IV, 195*
review of Dean E. Winchester's "oil shale of the Rocky Mountain region," VII, 454
Schuchert, Charles S., discussion of theories of origin of salt domes, IX, 872
the relations of stratigraphy and paleogeography to petroleum geology, III, 286
the value of micro-fossils in petroleum exploration, VIII, 539
Schwennesen, A. T., Overbeck, R. M., and Dubendorf, H. H., *the Long Beach oil field and its problems, VIII, 403*
Scotland, oil in, VI, 376
Scotland, review of publication on, VI, 386
Scott, Gayle, *the Woodbine sand of Texas interpreted as a regressive phenomenon, X, 613*
Scott, Walter Winthrop, review of U. S. Geol. Survey's Bureau of Mines' "preliminary report on underground conditions in the Haynesville oil field, Louisiana," VI, 142
Scott dome, VI, 31
Scott sand, V, 404
Scouting, VIII, 660
Sears, Julian D., review of Frederic H. Lahee's "field geology," VII, 300
Seashore, Paul T., and DeWolf, F. W., *diamond drilling near Kerens, Navarro County, Texas, X, 703*

Second Cow Run sand, III, 21
Section 28 salt dome, *St. Martin Parish, Louisiana, IX, 1290*
Hager well, IX, 1291
oil in, IX, 1290
Sedimentary petrography, review, VII, 194
Sedimentation and diastrophism, Upper Cretaceous, in Montana, IX, 886
Sedimentary rocks, the effect of gravitational compaction on the structure of, X, 1035
Seepage oil, V, 190
Seidl theory of origin of salt domes, IX, 1260
Selenite, V, 220, 225
Sellards, Elias Howard, *the Luling oil field in Caldwell County, Texas, VIII, 775*
settlement of the Red River dispute, VII, 192
structural conditions in the oil fields of Vexar County, Texas, III, 299
the underground position of the Ellenberger formation in north-central Texas, IV, 283
Sellards, Elias Howard, and Patton, Leroy T., *subsurface geology of the Big Lake oil field, X, 365*
Sellars oil pool, VI, 429
Selma chalk, I, 153, 154; V, 491, 496, 654
Seminole conglomerate, I, 135; III, 261; V, 176, 283, 286, 546, 566; VI, 12
Semmes, Douglas R., review of his "petroliferous formations of the Tampico embayment, Mexico," V, 101
Senonian, V, 7
Europe, VI, 526
Senora formation, V, 34, 283, 287
Sensori agglomerate, III, 364
Sericitization and dolomitization compared with the fixed carbon ratio of coal as indices of metamorphism in oil-bearing formations, VII, 291
Serpentine, Cuba, II, 138
Lytton Springs oil field, Texas, X, 961
Texas, III, 85; V, 658
Servia, review of publication on, VI, 388
Sespe formation, VI, 305
Severy shale, V, 568
Shale, carbonaceous, VI, 333
lithologic character of, as an index of metamorphism, X, 625
Shamrock oil field, V, 133; VI, 38, 81
Shannon, C. W., and Rockwell, Fred Gore, *new oil and gas development in Oklahoma, IV, 277*
Shannon sand, III, 358; IV, 38; V, 205; VI, 90
Shansi, China, oil prospects in, X, 1083
Shaw, Eugene Wesley, review of C. A. Warner's "field mapping for the oil geologist," V, 634
the principles of natural gas-land valuation, III, 378
Shayes, Fred P., and Stroud, Ben K., *Monroe gas field, Louisiana, VII, 565*
Shea, E. F., *water conditions in the Urschel pool, Marion County, Kansas, VI, 426*
Shensi, China, oil prospects in, X, 1089
Shensi oil field, China, VIII, 169
oil wells in, X, 1105
production in, X, 1109
Shensi sandstone, III, 101
Sheridan test, Ellsworth County, Kansas, X, 199
Shields Canyon oil field, V, 459
Shimer gypsum, II, 74, 114
Shinarump conglomerate, VI, 47, 205, 211, 244
Shoestring oil pools of eastern Kansas, further observations on, X, 568
Shoestring sands of eastern Kansas, VII, 103
origins, VII, 110
relation of oil and gas to structure in, VII, 108
Shreveport oil field, II, 67; IV, 131
Shumway dome, VI, 322
Siberia, ozocerite and naphtha on Lake Baikal, IX, 811
Siebenthal, C. E., theory of origin of salt domes, IX, 850
Signal Hill oil field, California, V, 458; VIII, 14
Siggins oil pool, V, 311
Silurian, Illinois, IV, 45
carbon content, V, 476
Indiana, IX, 321
Kansas, II, 105, 109
Kentucky, II, 40; IV, 305; VI, 25; VIII, 625
New Mexico, IV, 104
Oklahoma, III, 263; V, 33, 121, 152, 406; VI, 6, 161
Russia, VI, 335

Tennessee, V, 169, 653; VIII, 625
Utah, VI, 207
Simpson formation, V, 34, 150, 344, 471; VI, 6, 13, 422
Oklahoma, VII, 558
unconformities, VII, 558
Sinclair, E. G., *oil possibilities of the Black Hills region, X, 800*
Sinian limestone, China, III, 100
Sioux quartzite, VI, 552
Siouxia, V, 559; VI, 470
Sketching case, use of, in geologic work, VIII, 672
Skirvin, Orren W., review of his "experimental study of the invasion of oil into a water-wet sand," VII, 85
Sledge oil pool, VI, 24
Slick oil field, Oklahoma, VI, 260, 398
Slickford sand, IV, 306
Sloboda conglomerate, Europe, VI, 526
Slumping previous to consolidation in the Pennsylvanian of Oklahoma, evidences of, VIII, 505
Smackover oil field, Arkansas, VI, 556
producing sands in the, IX, 1116
structure, VII, 676
subsurface conditions in the heavy oil-producing area of, VII, 672
Smith, George Otis, *the public-service opportunity of the oil geologist, IV, 5*
Smith, R. A., review of his "oil prospecting in Michigan," VI, 381
Smith-Dunn process, V, 686
Smithwick shale, III, 35, 39, 71–81, 130, 139, 163, 166, 169, 173, 188, 217, 224, 231, 237, 419; V, 377; VI, 13; X, 481
Snow, D. R., and Dean, David, *Rainbow Bend field, Cowley County, Kansas, IX, 974*
Soap Creek dome, VI, 88
Soil mechanics, principles of, review, X, 314
Solomon gypsum, II, 75
Soluble material in oil shale, IX, 1025
Sombodja oil field, V, 417
Somerset oil field, III, 299, 308
Sonora formation, VI, 13
Sorghum Hollow oil field, V, 295
Sour Lake oil field, I, 46; II, 34; III, 87; V, 243, 333
South Africa, V, 672
oil showing in granite, VI, 369
South Bend oil field, V, 503
South Dakota, oil in, bibliography, footnotes, VII, 507–14
oil possibilities, VI, 496, 551; VII, 507; X, 800
oil reserves, VI, 44
structure in North Haakon County, review, X, 533
the bearing of geologic features in, upon oil possibilities, VII, 507
South Dakota and Wyoming stratigraphy, VII, 510
South Dayton dome, Texas, I, 45; *IX, 655*
cap rock, IX, 663
future production, IX, 665
stratigraphy, IX, 658
structure, IX, 662
topography, IX, 658
wells, IX, 660
South Mountain oil field, California, V, 459; VIII, 810
South Texas dome, normal stratigraphic section, IX, 556
South Texas domes, bibliography, IX, 589
geology of, IX, 546
map, IX, 537
physiography of, IX, 539
Soxhlet extractor for porosity determinations, X, 998
Soxhlet's extraction apparatus, VIII, 734
Sparta sand, Louisiana, X, 236, 281
Spavinaw granite, IV, 174
Speck Mountain bed, III, 143
Speechley sand, IV, 29; V, 83, 366
Spieker, Edmund M., review of T. O. Bosworth's "geology of the Tertiary and Quarternary periods in the northwest part of Peru," VII, 443
the petroleum geology of a part of the western Peace River district, British Columbia, VI, 112
Spindletop, a characteristic Gulf Coast salt dome, IX, 598
Spindletop dome, Texas, IX, 594, 835, 841
bibliography, IX, 612
cap rock, IX, 601
geology, IX, 598
oil and gas, IX, 607
origin of, IX, 605
production, IX, 609
stratigraphic section, IX, 604
Spindletop oil field, Texas, IX, 594
Spindletop oil pool, I, 47; III, 87; IV, 10; V, 212, 245, 333, 445, 689
review of publication on, VI, 383

Spooner, William Calvin, *interior salt domes of Louisiana, X, 217*
and Hull, Joseph Poyer Deyo, *oil and gas pools of north Louisiana, VI, 179, 259*
Spring Hill-Sarepta gas field, Webster and Bossier parishes, Louisiana, VII, 546
gas production from, VIII, 555
Springer formation, VI, 7
Spur well, I, 95
Spurrier-Riverton oil field, V, 168, 652
Squaw sand, V, 404
Squirrel sand, VI, 471
Stadnichenko, Taisia, and White, David, *microthermal observations of some oil shales and other carbonaceous rocks, X, 860*
Stalder, Walter, *Monterey (Salinas) shales in Pine Canyon, Monterey County, California, VIII, 55*
Standard Oil Company of New Jersey, VII, 280
Stanhope oil field, V, 276, 281
Stanley shale, III, 149; V, 549, 552, 566, 679
Stanton limestone, II, 121; V, 66, 546, 565, 568, 578, 580
Stanton-Plattsburg-Iola group limestones, V, 276
Stapleton sand, V, 149; VI, 322, 374
Stassfurt district, IX, 1247
Stassfurt salt-dome ridge, IX, 1252
Stassfurt type of salt structures, IX, 1250
Stauffer, Clinton R., *Minnesota's oil and gas possibilities, X, 190*
Steele shale, V, 204, 208
Steen dome, Texas, VI, 58
geology, X, 26
structure, X, 28
topography, X, 24
Steiner, George, *torsion-balance principles as applied by the original Eötvos torsion balance, X, 1210*
Stephens County, Texas, geology, IV, 159
Stephenson, C. D., *Verden sandstone of southwestern Oklahoma, IX, 626*
Stephenson, Eugene Austin, and Bennett, Holly Reed, *decline and production of the Ranger field, IV, 221*
open-flow gauge and the working capacity of gas wells, IX, 217
Stephenson, L. W., a chance of more oil in southwestern Texas, VI, 475
identification of fossils of Gulf Coastal Plain, X, 39
Stewart, Philip Charteris Anstruther, memorial, VII, 321
Stevens, John B., *comparative study of the San Joaquin Valley oil fields, VIII, 29*
Stiles, E., and Hager, D. S., *the Blue Ridge salt dome, Fort Bend County, Texas, IX, 304*
Stille, Hans, folding in salt domes, IX, 1258, 1260
the upthrust of the salt masses of Germany, IX, 417
Stillwater formation, Kansas, X, 792
Oklahoma, X, 792
Stipp, Thomas F., *the relation of Foraminifera to the origin of California petroleum, X, 697*
Stockweather bed, III, 143
Stokes rotary drill, V, 520
Stone Cameron oil field, V, 422
Stones River group, V, 646, 654
Stones River oil field, V, 611
Stonewall quadrangle, Oklahoma, geology of the, IX, 355
Storm, Willis, carbon ratio, VII, 291
carbon ratios of Cretaceous coals in New Mexico in their possible relation to oil, VIII, 519
the Fox oil and gas field, Oklahoma, VI, 367
the "2–4" shallow oil and gas field, Oklahama, V, 626
the Velma oil and gas field, Oklahoma, V, 627
Storm, Willis, and Tomlinson, C. W., *Graham field, Oklahoma, VIII, 593*
Stratford formation, in Oklahoma, IX, 988
Stratigraphic section, Pine Prairie salt dome, IX, 750
salt domes of Louisiana, X, 227
southern Louisiana, X, 84
Stratigraphic sections, German salt deposits, IX, 1248
Miocene, Texas and Louisiana wells, IX, 89
Oligocene, Texas, IX, 106
Stratigraphic variation, effect on folding, V, 481
Stratigraphic zones, relative value of species of smaller Foraminifera for the recognition of, VII, 517

Stratigraphy, Alberta, VII, 149
Archer County oil field, Texas, X, 461
Baldwin Hills, California, X, 505
Barbers Hill, Texas, IX, 965
Blue Ridge dome, Texas, IX, 309
Cotton Valley oil field, Louisiana, IX, 877
Currie field, Texas, VII, 26
Damon Mound, Texas, IX, 527
Desert Basin of Western Australia, X, 1127
El Dorado field, Arkansas, VII, 354
gas fields of Transylvania, Roumania, VIII, 204
Goose Creek oil field, Texas, IX, 290
Graham field, Oklahoma, VIII, 602
Gulf Coastal Plain, VIII, 21
Hockley dome, Texas, IX, 1045
India, IX, 1273
interior salt domes of Louisiana, X, 225
of Texas and Louisiana, X, 6
Kevin-Sunburst field, Montana, VII, 266
Los Angeles Basin, California, X, 754
Minerva field, Texas, VIII, 632
Monroe field, Louisiana, VII, 566
Montana, comparative, VII, 159
of producing sands in Arkansas and Louisiana, bibliography, footnotes, VII, 363–67
in northern Louisiana and southern Arkansas, VII, 362
Rawlins-Lost Soldier district, Wyoming, VII, 138
Robberson field, Oklahoma, VII, 627
Roumanian oil fields, IX, 147
smaller Foraminifera for, VIII, 246
South Dayton dome, Texas, IX, 658
Stratton Ridge dome, Texas, IX, 19
sub-Carpathian zone, IX, 1240
subsurface, of the coastal plain of Texas and Louisiana, IX, 79
Tampico District of Mexico, IX, 136
Texas, VII, 532
Texas Panhandle, X, 736
Thomas oil field, Oklahoma, X, 645
Tonkawa oil field, Oklahoma, VIII, 274, 286
Welsh oil field, Louisiana, IX, 466
western Kansas, contribution to, VIII, 242
Wheeler Ridge oil field, California, X, 495
Wyoming and South Dakota, VII, 510
Stratton Ridge dome, Texas, I, 44; V, 218; *IX, 1*
cap rock, IX, 9
geology, IX, 5
oil and gas, IX, 30
stratigraphy, IX, 19
structure, IX, 14
wells, IX, 8
Straub, Charles E., discussion on "drilling wells with the diamond drill," V, 674
Strawn formation, III, 36, 48, 77, 94, 134, 138, 140, 146, 154, 158, 169, 173, 188, 296, 334; IV, 83, 122; V, 155, 378, 504, 545, 559, 562
Strawn group, Texas, X, 462, 479
Strawn oil field, III, 49, 93, 94; IV, 160
Stray sand, Kentucky, IV, 306
Strontium minerals in Big Hill dome, Texas, IX, 719
Stroud, Benjamin Kendrick, review of his "mud laden fluids and tables on specific gravities and collapsing pressures," VI, 382
the necessity for engineering in developing oil and gas properties, VI, 377
Stroud, Ben K., and Shayes, Fred P., *Monroe gas field, Louisiana, VII, 565*
Structural classification of oil deposits, VII, 582
Structural features of central Montana, bibliography, footnotes, VII, 2–11
Structure. (See Gardner, J. H., I, 107)
Alberta, VII, 149
Archer County, Texas, X, 471
Baldwin Hills, California, X, 511
Belle Isle dome, Louisiana, IX, 790
Bellevue field, Louisiana, VII, 650
Big Lake oil field, Texas, X, 377
Bistineau dome, Louisiana, X, 255
British Columbia, VI, 128
Brooks dome, Texas, X, 35
Bryan Heights dome, Texas, IX, 616
Burkett-Seeley pool, Kansas, VII, 483
California, VI, 310, 314
Carpathian Mountains, IX, 1166
Cedar Creek dome, Louisiana, X, 286
Coochie Brake dome, Louisiana, X, 290
Cotton Valley oil field, Louisiana, IX, 878
Currie oil field, Texas, VII, 26
Damon Mound, IX, 524
Drake's dome, Louisiana, X, 275
El Dorado oil field, Arkansas, VII, 354
general, VI, 37
Glass Mountains, Texas, X, 878
Glenn formation, Oklahoma, VI, 14
Goose Creek field, IX, 292
Graham field, Oklahoma, VIII, 596
Gulf Coastal Plain, VIII, 25
in the gypsum, Harvey County, Kansas, IX, 1062

Jennings oil field, Louisiana, X, 80
Kansas, VIII, 448
southern, VI, 468
western, VI, 77
Keechi dome, Texas, X, 44
Kentucky, VI, 24
Kevin-Sunburst field, Montana, VII, 271
King's dome, Louisiana, X, 259
Louisiana, IV, 122, 181
Los Angeles Basin, California, X, 763
Lost Soldier district, Wyoming, VII, 142
Luling field, Texas, VIII, 785; IX, 640
Minerva oil field, Texas, VIII, 635
Missouri, review of publication, VI, 384
Monroe gas field, VI, 156
North Haakon County, South Dakota, review, X, 533
of salt domes of northwest Europe as revealed in salt mines, IX, 326
of sedimentary rocks, the effect of gravitational compaction on, X, 1035
Oklahoma. (See J. H. Gardner, VI, 228)
origin in Mid-Continent fields, IV, 89
Osage County, Oklahoma, IV, 151; VI, 464
Palestine dome, Texas, X, 53
Panuco River Valley, Mexico, X, 685
Price's dome, Louisiana, X, 271
Prothro dome, Louisiana, X, 252
Rainbow Bend field, Kansas, IX, 976
Rayburn's dome, Louisiana, X, 265
relation to oil accumulation, III, 90
relations to production in Kansas, VII, 75
Robberson field, Oklahoma, VII, 630
Salado Arch, Mexico, IX, 131
Santa Fe Springs, California, VIII, 179
Smackover, Arkansas, VII, 676
South Dayton dome, Texas, IX, 662
southern California, dynamics of oil-field, VIII, 576
Steen dome, Texas, X, 28
Stratton Ridge dome, IX, 14
subsurface, V, 17, 32, 42
subsurface contouring, VI, 317
subsurface, of eastern Kentucky, VIII, 152
Texas Panhandle, IV, 272
Thomas field, Oklahoma, X, 650
Tonkawa field, Oklahoma, VIII, 272, 292; X, 888
topographic indications, VI, 37
Transylvania, VIII, 205
Trinidad, IX, 1002
Utah, VI, 243, 245
Vacherie dome, Louisiana, X, 244
Welsh oil field, IX, 469
Wheeler Ridge anticline, California, X, 499
Structure contour map of central Montana, VII, opp. 8
Structure section, Ventura County, California, VIII, 804
Structures, anticlinal and domal, of the Russell region, Kansas, IX, 1063
chalk, in western Kansas, IX, 1064
produced by vertical compaction, X, 1064
surface, of central and western Kansas, IX, 1061
Stryker, W. L., *subsurface geology of Wilson County, Kansas, IX, 1207*
Stuart shale, V, 24, 283, 287; VI, 13
Stutzer, Otto, original source of oil in Colombia, discussion, X, 1175
Subsurface observations in southeast Kansas, VIII, 445
Sukunka formation, VI, 116
Sulphate-reducing bacteria, X, 1274
from California oil-field waters, X, 1293
from Illinois oil-field waters, X, 1289
in oil-field waters, X, 1286
Sulphates, biochemical reductions of, X, 1272
problem of the natural reduction of, X, 1270
Sulphide minerals in Big Hill dome, Texas, IX, 719
Sulphur, Big Hill dome, Texas, IX, 726
Damon Mound, Texas, IX, 532
Hockley dome, Texas, IX, 1060
in cap rock, IX, 43
Louisiana, III, 243
origin of deposits in Texas, III, 245
Pine Prairie dome, Louisiana, IX, 755
world-production and consumption, IX, 736
Sulphur dome, Louisiana, IX, 479
bibliography, IX, 495
cap rock, IX, 486
geology, IX, 483
map of wells, IX, 482
oil possibilities, IX, 491
origin of the sulphur, IX, 490
physiography, IX, 481
well logs, IX, 491
well records, IX, 489
Sulphur Mine dome, I, 47
Sulphur mining, Big Hill dome, Texas, IX, 732
in Texas, III, 242

Sulphur waters, occurrence of, in the Gulf Coast of Texas and Louisiana, and their significance in locating new domes, IX, 35

Suman, John R., oil development in Texas and Louisiana coastal fields during 1920, V, 333
review of his "petroleum production methods," V, 680, 682
Saratoga oil field, Hardin County, Texas, IX, 263

Sumatra oil, V, 417

Sumner County oil fields, V, 652

Sunbury shale, V, 522

Sundance formation, IV, 38; V, 193, 257, 260

Sunnybrook oil pool, V, 169

Sunnybrook sand, IV, 306

Sunset-Midway and Kern River oil fields, microlithology and micropaleontology of the oil-bearing formations in the, X, 482

Sunset-Midway oil region, California, micro-paleontological divisions, Etchegoin formation, X, 487, 488, 489

Supai formation, VI, 47, 205, 211, 224, 227; X, 824
Arizona, fossils, X, 825
Holbrook dome, X, 825
Mongollon Plateau, X, 825

Supervision of public oil lands by the United States Bureau of Mines, review, VII, 196

Surface mounds, Gulf Coast, I, 37

Surface structures of central and western Kansas, IX, 1061

Survey of a deep bore hole, an interesting example of a, X, 775

Sweet, P. W. K., and Wright, Jr., Albert, the Jurassic as a source of oil in western Cuba, VIII, 516

Sweetland Creek shale, IV, 45

Swigart, T. E., *experiments on back pressure on oil wells, VII, 37*

Switzerland, petroleum investigations, IV, 87

Sycamore limestone, V, 34; VI, 6, 15
Oklahoma, X, 138

Sylamore sandstone, V, 122, 405, 509

Sylvan formation, VI, 15

Szechwan oil field, China, VIII, 173

T

Taff, J. A., and Gaylord, E. G., *geological organization of an oil company, VIII, 651*

Taff, J. A., and Hanna, G. D., age and correlation of the Moreno shale, X, 812

Tague-Weaver oil field, V, 422

Takahashi, Junichi, review of his "the marine kerogen shales from the oil fields of Japan," VII, 83

Taliaferro, N. L., and Hudson, F. S., *an interesting example of a deep bore hole, X, 775*
calcium chloride waters from certain oil fields in Ventura County, California, IX, 1071

Taliaferro, N. L., Hudson, F. S., and Craddock, W. N., *the oil fields of Ventura County, California, VIII, 789*

Taloga formation, II, 74

Tamasopo limestone, III, 359; IV, 106; V, 85, 101, 677; VI, 91

Tamasopo Ridge, Mexico, X, 439

Tamasopo series, Mexico, X, 671

Tamaulipas, Mexico, Chapeño salt dome, IX, 134
oil possibilities in, IX, 123

Tamaulipas limestone, Panuco River Valley, Mexico, X, 673

Tampico district of Mexico, stratigraphy, IX, 136

Tampico Embayment, the Foraminifera of the Velasco shale of, X, 581

Taneha sand, V, 404

Taranaki district, New Zealand, geology, X, 1239
wells, X, 1243

Tarr, Russell S., red beds near the base of the Cherokee shales, IX, 350

Taxation of oil property, application of depletion allowance, V, 484

Taxation problems, VII, 618

Taylor, Charles Henry, *the granites of Kansas, I, 111*

Taylor chalk, Texas, X, 39, 41

Taylor formation, Texas, X, 45, 61

Taylor marl, III, 84, 96, 300, 305; IV, 128; V, 7, 28, 382; X, 28
Taylor microfauna, Texas, X, 42, 50
Teapot dome, Wyoming, faulting in, VII, 100
oil reserve in, VIII, 101
Teapot sandstone, V, 205
Teas, L. P., *differential compacting the cause of certain Claiborne dips, VII, 370*
Haynesville field, Louisiana, VI, 53, 371
new producing depths at El Dorado, Arkansas, VI, 473
Tecovas formation, IV, 271
Teeter oil field, IV, 259
Tehuantepec, review of paper on, VI, 60
Tejon formation, VI, 305
Temperature of fluids in wells, VI, 547
Temperature of Oklahoma's deepest well, VIII, 525
Templeton, R. R., and McCollom, C. R., *Santa Fe Springs field, California, VIII, 178*
Tennessee, Chattanooga black shale, VIII, 455
geology of oil fields, V, 100, *168, 645*
oil reserves, VI, 44
review of publications on, VI, 262, 383
Tennessee and Kentucky, Mississippian, VIII, 627
Tennessee, Kentucky, and northeastern Mississippi, oil horizons of, VIII, 621
Tensleep formation, V, 190, 257; VI, 226
Tepetate oil pool, V, 506, 677
Tercio Park dome, Colorado, faults, X, 121
Tertiary, Alaska, VI, 295
Argentina, X, 855
Arizona, VI, 47
Arkansas, VI, 196, 350
California, X, 131, 892
Canada, IV, 250
Florida, III, 359
fossils, North (Russian) Sakhalin, X, 1156
Idaho, VI, 472
Illinois, VI, 155
in German salt anticlines, IX, 430
in Rocky Mountain fields, VII, 404
Kansas, II, 81; VI, 69
Kentucky, IV, 304
lavas, V, 672
Louisiana, VI, 180, 249, 251; X, 227, 264
Montana, IV, 314
New Mexico, IV, 77, 95
Oklahoma, I, 136; III, 255
Peru, VII, 443
terraces not necessarily indications of unconformities, X, 908
Roumania, IX, 152
Switzerland, IV, 88
Texas, IV, 271; VI, 242, 323
a revision of the section with special reference to the oil-well geology of the coast region, VIII, 424
Transylvania, Roumania, VIII, 203
Utah, VI, 202, 204, 223, 244
West Indies, VI, 496
Tertiary formations, prolific source of oil and gas, VII, 59
Tertiary rocks, Los Angeles Basin, California, X, 755
oil in, Colombia, X, 403
Tertiary series, Colombia, X, 386
Terzaghi, Charles, review of his "principles of soil mechanics," X, 314
Tesnus formation, V, 556
Tester, A. C., and Twenhofel, W. H., *new data on the Comanchean strata of central Kansas, X, 553*
Texas, absence of metamorphosed sedimentary rocks in the Panhandle, VIII, 241
age of oil-bearing horizon at Burkburnett, V, 154, 324
Amarillo district, geology IV, 269
oil and gas in, VII, 237
Archer County, Canyon group, X, 479
Dalmar sand, X, 466
geology and oil fields of, X, 457
Lower Freeman-Hampton sand, X, 465
Marble Falls limestone, X, 481
oil field, drilling methods, X, 475
map, X, 472
production and development, X, 474
oil pools, X, 476
oil recovery, X, 470
oil, source of, X, 467
production, X, 464
stratigraphy, X, 461
recent discovery in, V, 418
Smithwick shale, X, 481
Strawn group, X, 479
structure, X, 471
Texhoma-Gose sand, X, 465
Upper Wilmot sand, X, 466
Austin chalk, X, 49, 50, 61, 769
Austin fauna, X, 31

Balcones and Mexia fault zones, bibliography, X, 1268
Barbers Hill oil field, IX, 958
bibliography of, IX, 973
oil analyses, IX, 969
oil deposits, IX, 968
production curves, IX, 970
Batson oil field, IX, 1277
Bend group, X, 461
Big Hill dome, Jefferson County, IX, 590
Matagorda County, IX, 711
bibliography, IX, 737
Big Lake oil field, Comanchean, X, 368
black lime, X, 462
Blue Ridge salt dome, IX, 304
Brooks salt dome, X, 29
Bryan Heights salt dome, Brazoria County, IX, 613
Butler salt dome, topography, X, 55
Canyon group, X, 462
cap rock of the interior domes of, X, 17
Carrizo sandstone, X, 51
characteristics of sedimentary rocks, V, 373
Cisco group, X, 462
Coke County, structure and oil showings in the red beds of, III, 117
Comanchean, X, 770
coral reef surrounding Damon Mound, X, 978
coral reef surrounding West Columbia, X, 981
coral reefs in the Oligocene of, X, 976
correlation of formations with Oklahoma, V, 544
Cretaceous, X, 613
Balcones zone, X, 1261
fossils, IX, 559
western, V, 5
Currie field, VII, 25
faulting, X, 64
Damon Mound oil field, IX, 505
bibliography, IX, 534
diamond drilling near Kerens, Navarro County, X, 703
Eagle Ford, X, 49, 50
formation, X, 41
shale, X, 61, 770
Eastland County, geology, IV, 159
Eocene, X, 7, 155, 769
Lytton Springs field, X, 956
Mexia zone, X, 1261
faults, X, 1261
Foraminifera, IX, 19, 21
at Hockley dome, IX, 1048
Eocene, VIII, 443
Oligocene, X, 977
fossils, IX, 83, 85; X, 154
Big Hill dome, Jefferson County, IX, 593
Big Lake oil field, X, 370
Bryan Heights dome, IX, 619
Hockley dome, IX, 1048
Jackson, at Hockley dome, IX, 1051
Luling field, IX, 644
of coral reefs in the Oligocene of, X, 977
of Pecan Gap chalk in, IX, 1159
Permian, X, 148
Woodbine sand, X, 617
fossil algae and potash salts in salt dome, IX, 348
gas and oil near Edna, Jackson County, X, 905
geology of Barbers Hill, IX, 963
Grand Saline dome, X, 20
Luling field, IX, 636, 641, 647
geology of north, III, 44–70
north-central, III, 34, 132; IV, 283
Permian, X, 144
Glass Mountains, Comanchean, X, 878
faults, X, 879
folds, X, 880
Permian, X, 877
structure, X, 878
Glenrose limestone, X, 770
Goose Creek oil field, IX, 286
gray lime, X, 462
Gulf Coast oil fields, V, 335
historical progress in geology, I, 27
Hockley dome, IX, 1031
bibliography, IX, 1060
Humble field, I, 60
igneous rocks, V, 514
interior salt domes, X, 1
bibliography, footnotes, X, 3–58
Jackson Foraminifera, X, 154
formation, IX, 111, 521, 1050
Keechi dome, X, 35
fossils, X, 39
large gas well in Jim Hogg County, VIII, 676
Little Saline, X, 48
Lower Cretaceous, X, 7
Luling oil field, VIII, 775; IX, 632
bibliography, IX, 653
Lytton Springs oil field, X, 953
Marble Falls limestone, X, 462
Mexia, faulting and petroleum accumulation at, VII, 226
hydraulic accumulation of oil in, VII, 219
Midway formation, X, 27, 39, 45, 50, 61, 956
Minerva oil field, VIII, 632
Miocene, IX, 21
fossils, IX, 85, 97
Mount Selman formation, X, 51
Navarro formation, X, 39, 41, 50, 53, 61, 769

Nigger Creek oil pool, Limestone County, X, 997
north-central development in 1918, III, 163
northern, Kansas and Oklahoma, correlation of the Permian of, X, 144
northeastern, and southwestern Arkansas, geologic map of, IX, opp. 1158
oil and gas at Big Hill dome, IX, 725
at Hockley dome, IX, 1052
oil at Luling, VII, 182
oil-bearing formations, III, 82
oil-producing horizons, III, 192
oil reserves, V, 411; VI, 44
Oligocene, IX, 23, 100, 106, 527
fossils, IX, 102
Palangana and Piedras Pintas domes, IX, 538
Palestine dome, X, 45
Pecan Gap chalk, IX, 1159; X, 20, 28, 42, 44
Pennsylvanian, X, 457, 461
Permian, X, 464
Piedras Pintas salt dome, IX, 553
Pleistocene, IX, 19
Pliocene, IX, 21
prospective producing areas, III, 82
Recent, IX, 19
relation of the Reynosa escarpment to oil and gas fields of Webb and Zapata counties, VII, 532
bibliography, footnote, VII, 532
review of paper on Pennsylvanian stratigraphy, VI, 262, 263
review of paper on Solitario uplift, VI, 263
review of publication on gas in north-central, VI, 387
review of publication on salt domes, VI, 385
salt domes, IX, 536, 1230; X, 1, 14
typical one described (Columbia), V, 212
salt structures, IX, 832
Saratoga oil field, IX, 263
south, bibliography of salt domes, IX, 589
South Bend field, V, 503
South Dayton dome, IX, 655
southwestern, geology, VI, 475
Spindletop salt dome and oil field, IX, 594
bibliography, IX, 612
state geological survey progress, III, 24
Steen dome, X, 23
stratigraphy, III, 168; VII, 532
Stratton Ridge salt dome, Brazoria County, IX, 1
Strawn group, X, 462
structure, III, 176
subsurface Cretaceous section of southwest Bexar County, X, 768
Taylor chalk, X, 39, 41
formation, X, 45, 61
marl, X, 28
microfauna, X, 42, 50
Trinity sand, X, 771
two new salt domes in, X, 1171
unconformities, VI, 323; VIII, 432, 638; IX, 556; X, 11, 369, 371, 372, 375, 380, 381, 463, 877, 878, 881, 984
Upper Cretaceous, X, 7
Washita group, X, 49
well logs, III, 201
west, Cretaceous, V, 5
geologic structure of a portion of the Glass Mountains, X, 877
outcrop of surface oil sand in the Permian red beds of Coke County, IX, 1215
Wilcox formation, X, 20, 26, 41, 45, 50, 53, 56, 956
Woodbine sand, X, 41, 49
bibliography, footnotes, X, 613–24
interpreted as a regressive phenomenon, X, 613

Texas and Arkansas, chalk of, bibliography, footnotes, IX, 1152–64

Texas and Louisiana, comparison of interior domes of, X, 13
gulf coast, map of, X, 74
interior salt domes of, geology, X, 6
stratigraphy, X, 6
topography, X, 13
occurrence of sulphur waters in the Gulf Coast of, and their significance in locating new domes, IX, 35
salt-dome area, map, IX, 597
physiographic map, IX, 740
stratigraphic sections, Miocene, IX, 89
subsurface stratigraphy of the coastal plain of, IX, 79

Texas coast region, Eocene, VIII, 441
Miocene, VIII, 437
Oligocene, VIII, 440
Pliocene, VIII, 437

Texas Panhandle, anticline, faulting, X, 741
gas, bibliography, footnotes, X, 733–40
map, X, opp. 735
oil, bibliography, footnotes, X, 733–40
oil and gas in, VII, 237
oil and gas fields of the, X, 733
oil-bearing sands, X, 742
Permian, X, 735

production, gas, X, 743
production, oil, X, 744
stratigraphy, X, 736
Texas Tertiary section, a revision of, with special reference to the oil-well geology of the coast region, VIII, 424
Texhoma-Gose sand, Archer County, Texas, X, 465
Texture of oil sands with relation to the production of oil, VIII, 716
Theories, American, of salt-dome origin, IX, 835
Theories relative to oil and gas deposits, VIII, 94
Thermal currents as a factor in oil accumulation, VII, 429
Thermopolis formation, V, 191, 197
Thermostat for pycnometers, VIII, 733
Thirty Foot sand, VI, 449
Thom, Jr., William Taylor, direct synthesis of higher from lower hydrocarbons, VIII, 830
oil possibilities of South Dakota, VI, 551
relation of deep-seated faults to the surface structural features of central Montana, VII, 1
Thom, Jr., William Taylor, and Dobbin, Carroll Edward, oil and gas prospects in Garfield County, Montana, VI, 144
Thomas, E. T., aid to the study of Foraminifera, IX, 667
effect of pressure on the migration of oil, VIII, 527
Thomas oil field, Oklahoma, X, 643
Devonian, X, 648
geology, X, 650
Mississippian, X, 648
Ordovician, X, 648
production, X, 644
stratigraphy, X, 645
structure, X, 650
Thompson, Wallace Cammack, *the Midway limestone of northeast Texas, VI, 323*
Thompson, Wallace Cammack, and Hubbard, W. E., *geology and oil fields of Archer County, Texas, X, 457*
Thornberg, D. H., review of Alfred Wegener's "origin of continents and oceans," IX, 916
Thrall oil field, III, 84, 90, 125; *V*, 25, 398, *657*
Thrust faulting in the Rocky Mountain region, X, 105
Thurman sandstone, III, 264; V, 34, 283, 287, 403, 549, 562; VI, 12
Tickell, F. G., *correlative value of the heavy minerals, VIII, 158*
Tieje, A. J., *The Pliocene and Pleistocene history of the Baldwin Hills, Los Angeles County, California, X, 502*
Tierra Blanca oil field, V, 506
Tiger flats oil pool, III, 273
Tigre limestone, III, 364
Timpas limestone, IV, 76, 98
Tisdale oil field, V, 51, 203
Tishomingo granite, VI, 6
Todilto formation, VI, 205, 218
Tolmachoff, I. P., *oil prospecting on Sakhalin Island by Japan in 1919–25, X, 1163*
ozocerite and naphtha on Lake Baikal, Siberia, IX, 811
Tomlinson, C. W., *buried hills near Mannsville, Oklahoma, X, 138*
Tomlinson, C. W., and Storm, Willis, *Graham field, Oklahoma, VIII, 593*
Torsion balance, interpretation of the reactions, X, 1217
Torsion-balance principles as applied by the original Eötvös torsion balance, X, 1210
Torsion balances, bibliography, X, 1208
Tonkawa oil and gas field, Oklahoma, VIII, 269, 284
Tonkawa oil field, Oklahoma, preliminary report on, review, VII, 197
production, X, 891
stratigraphy, VIII, 274, 286
structure, VIII, 272, 292; X, 888
Wilcox sand production, X, 885
Topila oil field, V, 505
Topographic and geologic maps, interpretation of, review, X, 906
Topography, Baldwin Hills, California, X, 504
Bistineau salt dome, Louisiana, X, 253
Brooks salt dome, Texas, X, 30
Bryan Heights dome, Texas, IX, 614
Butler salt dome, Texas, X, 55
Cedar Creek dome, Louisiana, X, 284
Coochie Brake, Louisiana, X, 288
Cotton Valley, Louisiana, oil field, IX, 877
Damon Mound, Texas, IX, 521
Drake's dome, X, 272
Grand Saline dome, Texas, X, 19
Hockley dome, IX, 1037

interior domes of Texas and Louisiana, X, 13
Keechi dome, Texas, X, 36
King's dome, Louisiana, X, 257
North (Russian) Sakhalin, X, 1151
Palestine dome, Texas, X, 47
Price's dome, Louisiana, X, 266
Prothro dome, Louisiana, X, 246
Rayburn's dome, Louisiana, X, 262
South Dayton dome, Texas, IX, 658
Steen dome, Texas, X, 24
Vacherie dome, Louisiana, X, 239
Winnfield dome, Louisiana, X, 277

Tornillo oil field, V, 27

Toro formation, III, 365

Tortonien, Europe, VI, 526

Toteco oil field, VI, 111

Towanda oil field, IV, 255

Tower sandstone, IV, 198

Toyah oil field, III, 121, 245, 250

Trade journals, publication of association papers in, X, 1004

Trager, Earl Adam, a *résumé of the oil-shale industry, with an outline of methods of distillation, IV, 59*
kerogen and its relation to the origin of oil, VIII, 301
discussion, IX, 180
the geologic history of the Panuco River Valley and its relation to the origin and accumulation of oil in Mexico, X, 667

Trager, Earl Adam, Aurin, Fritz Love, and Clark, Glenn Cecil, *the subsurface pre-Pennsylvanian stratigraphy of the northern Mid-Continent oil fields, V, 117*, 324

Transylvania, Roumania, notes on natural gas fields of, VIII, 202
salt domes of, IX, 1192

Transylvanian basin, geologic map of part of, IX, 1176

Transylvanian salt domes, IX, 1246
bearing on problems of American salt domes, IX, 1246
bibliography on, IX, 1267

Tret-O-Lite, V, 250

Trans-Pecos region, V, 5, 379, 545, 558

Travis Peak formation, III, 302; V, 7

Trenton, Illinois, IV, 43; V, 88
Indiana, VI, 374
Kentucky, II, 48; IV, 305; VI, 25
Ohio, V, 611
Tennessee, V, 654

Triangulation targets, some notes on, VIII, 512

Triassic, Belgian Congo, V, 669
Big Lake oil field, Texas, X, 370
British Columbia, VI, 115
China, III, 102
Colorado, VI, 215
Connecticut, VI, 240
Idaho, VI, 472
in German salt anticlines, IX, 430
Kansas, VI, 551
Nevada, VI, 215
New Mexico, IV, 75, 95; V, 164, 167
Pennsylvania, V, 370
Rocky Mountain region, III, 357; VII, 406
Texas, IV, 271; V, 23, 379
Utah, VI, 89, 205, 211, 244
Wyoming, V, 192, 408; VIII, 515

Trickham bed, III, 143

Trinidad, British West Indies, asphalt, IX, 1008
geology and oil resources of, IX, 1000
bibliography, footnotes, IX, 1001
oil production, V, 604; IX, 1003
review of publication on, VI, 384, 390
sandstone, IV, 77, 99
structure, VI, 474; IX, 1002
unconformities, IX, 1002

Trinity sand, Arkansas, VI, 350, 477
Louisiana, II, 62; IV, 125; VI, 181
oil production in, review of publication, VI, 386
Oklahoma, III, 268; VI, 6, 21
Texas, III, 132, 168, 359; V, 9, 16, 310, 380; X, 771

Trujillo formation, IV, 271

Tucker sand, III, 216; V, 132, 149, 324, 421

Tulare formation, VI, 58

Turonian formation, V, 7; VI, 526

Turrentine, J. W., theory of origin of salt domes, IX, 849

Tuscaloosa formation, I, 153, 154; V, 492, 496

Tweedy, Joseph L., *a criticism of the rule of ten dollars increase in barrel-day prices with every one cent increase in the price of crude oil, IV, 189*

Twenhofel, William Henry, *negligible oil possibilities of Wisconsin, VII, 653*
review of E. M. Kindle's "bottom deposits of Lake Ontario," IX, 1121
subsurface distribution of the Comanchean in western Kansas, IX, 1105

surface structures of central and western Kansas, IX, 1061
the Wisconsin securities law, V, 29
Twenhofel, William Henry, and Edwards, E. C., *the metamorphic rocks of Woodson County, Kansas, V, 64*
Twenhofel, W. H., and Tester, A. C., *new data on the Comanchean strata of central Kansas, X, 553*
Twin Creek formation, V, 194
Tyner formation, IV, 181; V, 121–50, 344, 406, 509; VI, 375, 429

U

Udden, J. A., the "rim rock" of the high plains, VII, 72
Udden, Johan August, *address at fourth annual meeting, III, 23*
characteristics of some Texas sedimentary rocks as seen in well samples, V, 373
hints to prospective geologists, I, 127
oil-bearing formations in Texas, III, 82
Udden, John Andreas, exploration for oil in Australia, VIII, 244
observations on two deep borings near the Balcones faults, III, 124
occurrence of Ordovician sediments in western Kansas, X, 634
subsurface geology of the oil districts of north-central Texas, III, 34
suggestions of a new method of making underground observations, IV, 83
Udden, Jon Andreas, and Waite, Verdi V., *observation on the Bend in Bough No. 1 in Brown County, III, 334*
Uhrlaub, Rudolph, Butler County, Kansas, V, 421
Uinta thrust fault, X, 108
Unconformities, Alaska, VI, 295
Appalachians, VII, 60
Arizona, New Mexico, and Texas, X, 822, 823, 831, 834, 851, 855
Arkansas, X, 11
Big Snowy Mountains, VII, 7
buried hills in relation to, X, 426, 1036, 1065
California, VI, 306; VII, 414–20; VIII, 41, 792, 793, 795, 796, 798, 802; IX, 233, 997, 998; X, 488, 502, 507, 717, 719, 755, 759, 762, 897, 898
Carpathians, VI, 526
Chattanooga black shale, Kentucky and Tennessee, VIII, 627
China, X, 1079, 1091, 1093, 1086
Colombia, X, 402
Cuba, VIII, 518
effect of, on migration of oil and water, VIII, 705, 706
Egypt, X, 434, 439
Germany, IX, 421, 431; X, 414
Gulf Coastal region, VII, 380; VIII, 24–26
Indiana, IX, 323
irregular surfaces, X, 1066
Kansas, VI, 75, 183; VIII, 448, 451; IX, 814, 1063, 1069, 1209, 1210; X, 205, 214, 1303, 1304
Kentucky, VIII, 627
Little Rocky Mountains, VII, 7
Long Beach oil field, VIII, 408
Lost Soldier dome, Wyoming, VII, 576
Louisiana, IX, 750; X, 235
Mexico, IX, 111, 144; X, 442, 673
Missouri-Kansas-Oklahoma, IX, 1069
Montana, VII, 7; IX, 894; X, 993
New Zealand, X, 1231, 1239, 1246, 1247
Oklahoma, III, 253; V, 33, 34, 406, 471, 579; VI, 12, 15, 55, 70; VII, 577, 628, 631, 641; X, 140
Patagonia, IX, 181
Pennsylvanian, X, 1303
Persia, X, 430
petroleum deposits important at, X, 422
Pine Island field, VII, 381
Portuguese West Africa, VII, 479
Rawlins-Lost Soldier district, VII, 138, 139
Rocky Mountains, VII, 62, 64
San Joaquin Valley, VIII, 31
Simpson formation, VII, 558
terraces not necessarily indications of, X, 908
Texas, VI, 323; VIII, 432, 638; IX, 556; X, 11, 369, 371, 372, 375, 380, 381, 463, 877, 878, 881, 984
Trinidad, IX, 1002
Utah, VI, 208, 223; VII, 391–93
Wisconsin, VII, 656
Uniontown-Connellsville-Latrobe syncline, V, 368
United States Geological Survey, *oil supply of the United States, VI, 42*
review of its "preliminary report of underground conditions in the Haynesville oil field, Louisiana," VI, 142

Upper Cretaceous paleogeography of Montana, some notes on the, VIII, 554
Upper Wilmot sand, Archer County, Texas, X, 466
Upthrust of salt masses of Germany, IX, 417
theories, IX, 428
Upton-Thornton oil field, review of publication on, VI, 385
Uren, Lester C., *oil-well-spacing problem, IX, 193*
Urschel oil pool, V, 144, 509; VI, 88, *426*
Utah, gas at Farnham, VII, 293
geology and structure of portions of Grand and San Juan counties, VII, 384
bibliography, footnotes, VII, 385–95
Green River basin, VIII, 302
Green River formation, VIII, 663
oil reserves, VI, 44
possible oil in, VI, 244
review of publication on Uinta Basin, VI, 261
review of various publications, VI, 383, 384, 386
stratigraphy, VI, 47, 199
structure, VI, 243
thrust faults, X, 106
unconformities, VI, 208, 223, VII, 391–93

V

Vacherie dome, Louisiana, cap rock, X, 243
geology, X, 239
structure, X, 244
topographic map, X, 240
topography, X, 239
Washita group, X, 243
well sections on, X, 241
Valuation of gas properties, III, 378; VI, 390, 444
of oil and gas lands, review, IX, 356
of oil properties, III, 367, 389, 421, 437; *IV, 189, 209, 299;* V, 484; *VI*, 56, 388, 390, 483, *533*
Van Burch, Lisle Reed, Lupton, Charles Thomas, and Lee, Wallace, *oil possibilities of western Kansas, VI, 69*
Van der Gracht, W. A. J. M., discussion of Roumanian salt domes, IX, 1201
résumé of the problem of continental drift, X, 1002
saline domes of northwestern Europe, I, 85
structure of the salt domes of northwest Europe, as revealed in salt mines, IX, 326
theory of origin of salt domes, IX, 854
Vander Leck, Lawrence, Foraminifera and California petroleum, X, 699
Vander oil pool, III, 212
Van Tuyl, Francis M., elements of petroleum geology, review, IX, 362
Van Tuyl, F. M., and Beckstrom, R. C., *the effect of pressure on the migration and accumulation of petroleum, X, 917*
Van Tuyl, Francis M., and Blackburn, Chester O., *effect of rock flowage on the kerogen of oil shale, IX, 158*
relation of oil shale to petroleum, IX, 1127
Vaqueros formation, VI, 306
Los Angeles Basin, California, X, 756
Wheeler Ridge, California, X, 498
Vaughan, Francis Edward, *Five Islands, Louisiana, IX, 756*
Vaughan, Thomas Wayland, *on the relative value of species of smaller Foraminifera for the recognition of stratigraphic zones, VII, 517*
Veale oil field, III, 166
Velasco formation, Mexico, X, 683
Velasco shale, Foraminifera of, Tampico embayment, X, 581
Velma oil field, V, 454, 626
Venango sand, IV, 29
Venezuela, V, 604; VI, 474
Ventura (Avenue) field, California, VIII, 821
Ventura County, California, oil fields, V, 181, 458; *VIII, 789*
Verden sandstone of southwestern Oklahoma, IX, 626
Vermejo formation, IV, 77, 99
Vertebrates, VII, 186
Vicksburg limestone, I, 155; III, 360; V, 490; VI, 180
Victoria (Australia), review of publication on petroleum in, VI, 261
Victoria shale, VI, 72
Viking gas field, Alberta, VII, 153
Vinales formation, II, 139
Vinton oil field, I, 47, 84; V, 333, 339

Viola limestone, IV, 48; V, 34, 150, 471; VI, 6, 15, 423
Oklahoma, X, 142
Virgelle sandstone, IV, 314
Virginia, southwest, the possibilities of oil and gas in, as inferred from isocarbs, VII, 421
Voda well, Kansas, IX, 1067
Voitesti, I. P., *geology of the salt domes in the Carpathian region of Roumania, IX, 1165*
theory of origin of Roumanian salt masses, IX, 152
Volcanic ash, Calcasieu Parish, Louisiana, X, 93
Kansas, II, 82
North Canadian Valley, Oklahoma, VII, 576
northern Louisiana, VIII, 524
Oklahoma, I, 137
Texas, V, 26
Volcanic material, beds of, as key horizons, IX, 341
Volcanic rocks in the Cretaceous of Louisiana, VIII, 344
Volcanic tuffs in central Oklahoma, IX, 344
Volcanoes in west Texas, X, 13
Volumenometer, VIII, 731

W

Wabaunsee formation, V, 421
Wabiabi shale, IV, 250
Wainwright sand, V, 290
Waite, Verdi V., and Udden, Jon Andreas, *observations on the Bend in Bough No. 1 in Brown County, Texas, III, 334*
Waldrip limestone, III, 137, 138
Wall Creek sand, III, 358; IV, 38, 111; V, 201; VI, 514
Walnut clay, V, 16, 309
Walters oil field, IV, 279; V, 32, 454, 568
Wamac oil field, review of paper on, VI, 387
Wapanucka limestone, III, 76, 235, 264; V, 34–38, 543–64; VI, 12, 153
Ward formation, V, 379
Ward, Freeman, review of his "structure in North Haakon County, South Dakota," X, 533
Ward, Freeman, and Wilson, Roy A., review of their "oil possibilities in Western Dewey County, South Dakota," VII, 303
Waring, G. A., use of the sketching case in geologic work, VIII, 672
Waring, G. A., and Carlson, C. G., *geology and oil resources of Trinidad, British West Indies, IX, 1000*
Warner, Charles A., review of his "field mapping for the geologist," V, 634
Warner sandstone, V, 548
Warsaw formation, IV, 45, 306; VI, 26
Wasatch formation, V, 51–55, 199; VI, 204
Washburne, Chester W., discussion of Colin C. Rae's "organic material of carbonaceous shales," VII, 440
some physical principles of the origin of petroleums, III, 345
theory of origin of salt domes, IX, 850, 858
Washington, oil reserves, VI, 44
Washita formation, V, 7, 307; VI, 74, 181
Washita group, Texas, X, 49
Vacherie dome, Louisiana, X, 243
Water, hydraulic theory of oil migration and accumulation by means of the downward circulation of, IX, 1143
in Bend, III, 151
in Ellenberger, III, 160
Lytton Springs field, Texas, X, 969
migration of oil and, a further discussion, VIII, 697
relationship to oil, VIII, 607
Sulphur dome, analysis of, IX, 490
temperature of salt, in salt domes, I, 47
Water analyses, bibliography, footnotes, IX, 929–44
graphs, IX, 932
importance of, VIII, 87
in oil production and some analyses from Poison Spider, Wyoming, IX, 927
Water conditions in Currie, Texas, oil field, VII, 76
in the first Wall Creek sand, Salt Creek oil field, Wyoming, preliminary report on, VIII, 492
in Mexia, Texas, oil field, VII, 77
Water problem, Santa Fe Springs field, California, VIII, 193
Water troubles in drilling wells, VIII, 146
Waterloo oil field, V, 94

Waters, calcium chloride, from certain oil fields in Ventura County, California, IX, 1071
from the Green River shales, IX, 171
Wathlingen-Hänigsen, salt dome, IX, 1262
Watsi shale, III, 364
Waverley shale, II, 40; IV, 306
Wayside sand, V, 293; VI, 465
Weber formation, V, 190; VI, 226
Weeks, Albert W., *hydraulic theory of oil migration and accumulation by means of the downward circulation of water, IX, 1143*
Weeks Island dome, Louisiana, IX, 774
geology, IX, 776
oil, IX, 780
physiography, IX, 776
salt production, IX, 779
Wegemann, Carroll Harvey, location of lines of faulting in Salt Creek field, VII, 99
notes on the oil fields of Wyoming, IV, 37
Wegener, Alfred, review of his "origin of continents and oceans," IX, 916
Weir sand, IV, 31, 307
Weiser sand, V, 293
Well log, Bryan Heights dome, Texas, IX, 622
Well logs, Big Lake oil field, Texas, X, 379
Currie field, Texas, VII, 34
Jennings oil field, Louisiana, X, 82
Stratton Ridge dome, IX, 12
Sulphur salt dome, Louisiana, IX, 491
Well record, Jennings field, Louisiana, X, 84
Well records, Okmulgee district, III, 277
Sulphur salt dome, IX, 489
Well samples, some remarks on the care of, VII, 432
Well sections on King's salt dome, Louisiana, X, 261
on Vacherie salt dome, Louisiana, X, 241
on Winnfield Quarry dome, Louisiana, X, 283
Wellington formation, Kansas, X, 793
Oklahoma, X, 793
Wellington shale, II, 76; V, 508
Wellington well, Colorado, VIII, 82
Wells, R. C., on chemical reactions involved in origin of cap rock, IX, 76
Wells, Bayou Bouillon salt dome, Louisiana, IX, 1286
Bistineau dome, Louisiana, X, 253
Blue ridge field, IX, 314
Cedar Creek dome, Louisiana, X, 284, 287
Colorado, carbon dioxide from, VIII, 831
Damon Mound, Texas, IX, 511
Drake's dome, Louisiana, X, 272
drilled in East Coast district, New Zealand, X, 1252
in Taranaki district, New Zealand, X, 1243
on the interior salt domes of Louisiana, X, 222
on Vacherie salt dome, X, 239
Goose Creek oil field, IX, 292
Hockley dome, Texas, IX, opp. 1052, 1056
Jennings oil field, Louisiana, X, 79
King's salt dome, Louisiana, X, 257
map of, the Sulphur salt dome, IX, 482
South Dayton dome, Texas, IX, 660
Stratton Ridge dome, Texas, IX, 8, 32
Welsh field, Louisiana, IX, 478
Winnfield dome, Louisiana, X, 277
Welsh dome, Louisiana, I, 46
Welsh oil field, Louisiana, IX, 464
oil and gas, IX, 474
paleontology, IX, 468
production curves, IX, 475
stratigraphy, IX, 466
structure, IX, 469
topographic map, IX, 467
wells in, IX, 478
Werra district, IX, 1247
Wertz dome, Wyoming, VII, 144
faults, X, 120
West Columbia oil field, Texas, II, 34; V, 102, 247, 325; VI, 253
coral reef surrounding, X, 981
West Indies, review of publication on, VI, 263
West Point salt dome, I, 80
West Texas, the geologic structure of a portion of the Glass Mountains of, X, 877
West Virginia, development, III, 21; *IV, 27*
new map of, VI, 260
oil reserves, VI, 44
review of publication on carbon ratios, VI, 387
Western Australia, Desert Basin, fossils, X, 1128
geologic structure, X, 1132
Jurassic, X, 1129
stratigraphy, X, 1127

geography and geology of, X, 1119, 1137
geologic structure of Northwest Basin, X, 1144
Northwest Basin of, Jurassic, X, 1143
Permo-Carboniferous fossils, X, 1142
Permo-Carboniferous rocks of Northwest Basin, X, 1139
Westfield limestone, IV, 45
Westland district, New Zealand, geology, X, 1236
Weston shale, II, 104; V, 66, 67, 71
Wetumka shale, III, 269; V, 34, 283; VI, 13
Wewoka formation, I, 135; III, 265; V, 39, 285, 400; VI, 13
Wheaton formation, V, 369
Wheeler, Herbert A., review of his "influence of faulting in the Illinois fields," V, 107
Wheeler oil field, III, 257, 444; V, 173, 454; VI, 23
Wheeler Ridge anticline, California, structure, X, 499
Wheeler Ridge oil field, California, X, 495
Etchegoin formation, X, 497
faults, X, 499
Maricopa shale, X, 498
Miocene, X, 498
Paso Robles formation, X, 497
Pliocene, X, 497
production, X, 499
Quaternary, X, 497
stratigraphy, X, 495
Vaqueros formation, X, 498
Wheeler sand, III, 259, 266, 267; V, 133; VI, 320
White Cliffs, Arkansas, age and correlation of the chalk at, with notes on the subsurface correlations of northeast Texas, IX, 1152
White, David, *address at fourth annual banquet, III, 28*
address at fourth annual meeting, III, 19
fourteenth international geological congress, IX, 707
problems in oil geology and their advancement through coöperative research, VI, 509
radioactivity and oil field location, VII, 290
review of geologic and technologic work of the Soviet Council of petroleum industry, VII, 447
theories of relation of oil and gas to carbonation of coals, VII, 421
theory of origin of salt domes, IX, 857, 860
theory of relation between carbon ratios and petroleum, VIII, 519
White, Israel C., *address at fourth annual meeting, III, 20*
another deep test in Pennsylvania, V, 418
White, K. D., *oil development in Colombia, South America, I, 156*
review of E. H. Cunningham Craig's "oil finding," VI, 485
White, Luther, and Greene, Frank Cook, *correlation of the "Wilcox Sand" in the Okmulgee district with the Osage, Oklahoma, V, 399*
White Point oil field, II, 35
review of publication on, VI, 384
White River formation, V, 207, 408
Whitehorse sandstone, I, 103; II, 78, 114; III, 444; V, 627
Whitehurst, John W., and Ponton, Gerald M., *Spring Hill-Sarepta gas field, Webster and Bossier parishes, Louisiana, VII, 546*
Whiting sand, VI, 466
Whitney, J. D., on organic origin of oil of Pacific Coast, X, 697
Whittier-Fullerton oil field, V, 181; VI, 303
Wichita, Kansas, tenth annual business meeting, American Association of Petroleum Geologists, 1925, IX, 690
Wichita formation, I, 94, 96, 104, 105; III, 81, 95, 169, 170; V, 155, 379, 419; VI, 88
Wichita meeting of the American Association of Petroleum Geologists, March, 1925, IX, 678
Wichita Mountains, V, 35, 42, 330, 397, 569, 579, 628; *VI, 22, 413*
Wietze oil field, Germany, X, 413
Wiggam oil pool, V, 429
Wigglestick, supposed theory of the, VII, 427; X, 312
Wilberns formation, III, 175, 189
Wilcox clay, Texas, X, 45, 56
Wilcox formation, Arkansas, VI, 351, 363
Gulf Coast, I, 35, 75
Keechi dome, X, 38
Louisiana, II, 62; IV, 122; V, 304, 631; VI, 180, 194, 249; X, 233, 247, 249, 257, 264, 281

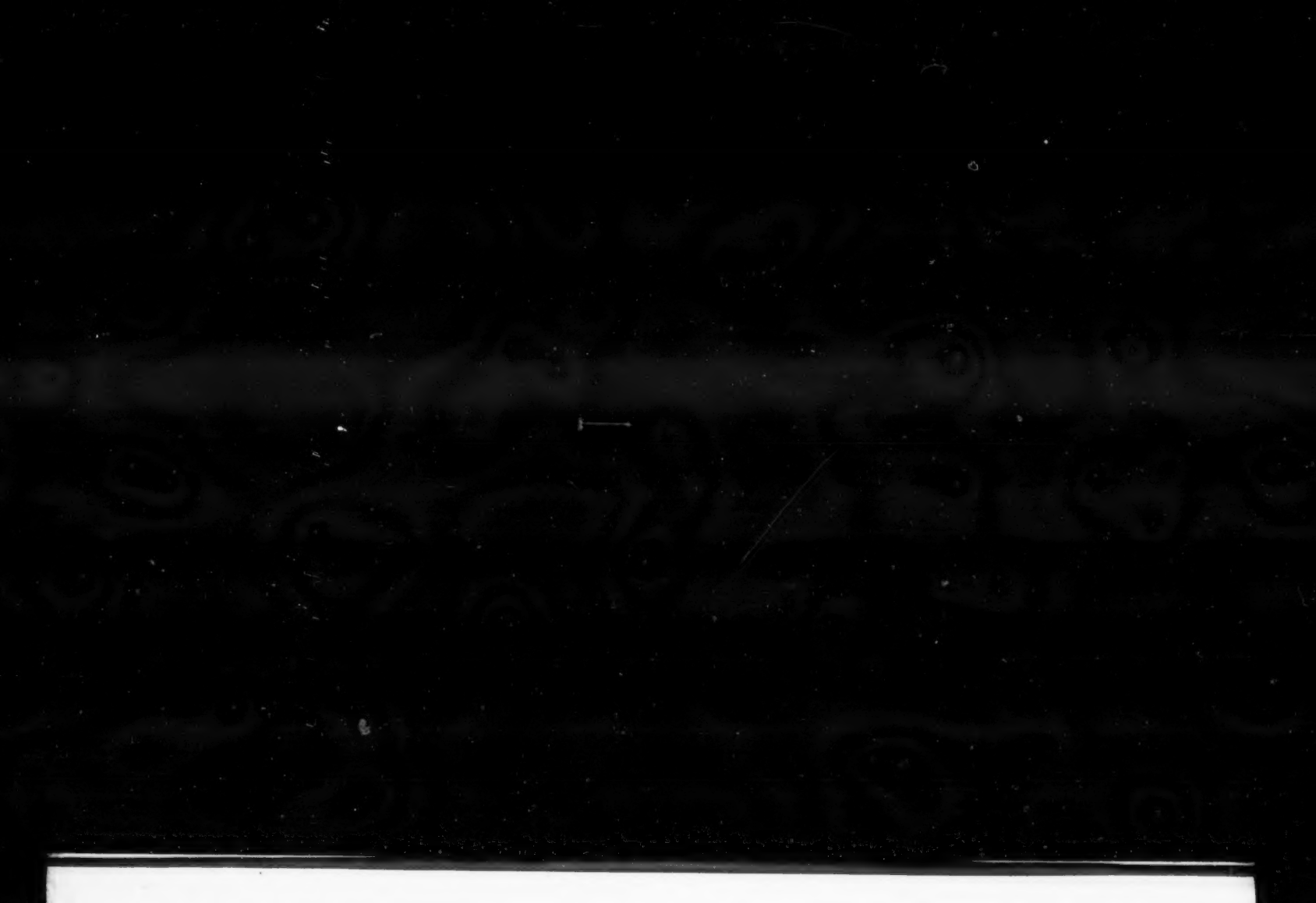
Lytton Springs oil field, Texas, X, 956
Mississippi ,V, 490, 496
Texas, V, 383; VI, 59, 323, 331; X, 20, 26, 41, 50, 53
Wilcox sand, V, 118, 148, 290, 292, 324, *399*, 421, 428, 486; VI, 276, 400
production, Tonkawa field, Oklahoma, X, 885
Wild Horse limestone, VI, 121
Willis, C. G., and Ferguson, R. N., *dynamics of oil-field structure in southern California, VIII, 576*
Wills Point clay, VI, 331
Wilson, John H., *lithologic character of shale as an index of metamorphism, X, 625*
Wilson, Roy A., *bearing of geologic features in South Dakota upon oil possibilities, VII, 507*
Williams, Delbert Waldo, *correlation of producing sands in southeastern Kansas and northeastern Oklahoma, V, 293*
oil and gas in Marion, Chase, Dickinson, Morris, and Geary counties, Kansas, V, 507
Winchester, Dean E., review of his "oil shale of the Rocky Mountain region," VII, 454
review of Junichi Takahashi's "the marine kerogen shale from the oil fields of Japan," VII, 83
review of Martin J. Gavin's "oil shale, an historical, technical and economic study," VIII, 529
Windhausen, Anselmo, review of his "lineas generales de la constitucion geologica de la region situada al oeste del Golfo de San Juan," VIII, 684
review of his "occurrence of oil at Commodoro Rivadavia, Argentine, Patagonia," IX, 181
Windom limestone, Kansas, X, 555
Winfield limestone, I, 114; II, 74; IV, 89; VI, 427
Wingate formation, VI, 205, 217, 244
Winnfield dome, Louisiana, X, 276
cap rock, X, 279
surface geology, X, 279
topography, X, 277
well sections on, X, 283
wells on, X, 277
Winslow formation, III, 262, 268, 269, 273; V, 283
Winterset limestone, V, 548
Wisconsin, negligible oil possibilities of, VII, 653
oil reserves, VI, 44
securities law, V, 29
unconformities, VII, 656
Wolf, Albert G., *Big Hill salt dome, Matagorda County, Texas, IX, 711*
hauerite in a salt-dome cap rock, X, 531
Wolfcamp formation, V, 548
Woodbine formation, Texas, X, 41
Woodbine pay sand, structure contour map of top of, VII, 28
Woodbine sand, Arkansas, VI, 197, 350, 363, 474, 477
Louisiana, I, 153; II, 62; IV, 125; V, 305, 492; VI, 181, 247
Texas, III, 96, 97; V, 7–9, 20, 21, 419, 626; VI, 329; X, 41, 49
bibliography, footnotes, X, 613–24
fossils, X, 617
interpreted as a regressive phenomenon, X, 613
Woodford chert, V, 34, 151, 427; VI, 6, 16
Oklahoma, X, 139
Woodhurst limestone, V, 259
Woodruff, Elmer Grant, discussion on salt domes, I, 79
the science of petroleum geology, V, 446
Woodward formation, II, 74, 114
Woodward oil field, II, 56
Wortham and Lake Richland faults, IX, 172
Wrather, William Embrey, American Association of Petroleum Geologists, eleventh annual meeting, Dallas, Texas, 1926, X, 538
editorial on regional meetings, VI, 348
memorial of Rollin D. Salisbury, VI, 563
notes on the stratigraphy of the Permian of the Pecos Valley in southeastern New Mexico, I, 101
notes on the Texas Permian, I, 93
president's report for 1922, VII, 308
supposed igneous rock from Wichita County, Texas, V, 512
the Mexia pool, Mexia, Texas, V, 419
the Mirando Oil Company well, Zapata County, Texas, V, 625
the Vinton, Louisiana, oil field, V, 339
Wreford limestone, II, 78; V, 422
Wright, Jr., Albert, and Sweet, P. W. K., the Jurassic as a source of oil in western Cuba, VIII, 516
Wright, W. J., review of his "geology of the Moncton map area," VII, 302

Wroblewski, Adam, memorial of Hans von Höfer, VIII, 534
review of the Revue de Géologie, X, 98
the Eötvos torsion balance, IX, 807
Wyoming, Black Hills region, oil possibilities, X, 800
black oil development, X, 446
Buck Springs structure, X, 115
Carboniferous in, VIII, 515
Colorado shale, VII, 488
combined geologic and oil-and-gas map of, X, 812
Cretaceous, VIII, 515
Eocene, VII, 138
Green River basin, VIII, 302
Green River formation, VIII, 663; IX, 249
Jurassic in, VIII, 515
Little Lost Soldier dome, faults, X, 120
Lost Soldier district, geology, VII, 136
oil and gas field of the, review, IX, 363
structure, VII, 142
Lower Cretaceous, VII, 138, 488
Montana shale, VII, 488
Mule Creek oil field, VI, 385
notes on the oil fields, IV, 37
occurrence of black oil in, X, 443
occurrences of oil and gas in, VIII, 515
oil accumulation, V, 49, 408
oil and gas in the Rawlins-Lost Soldier district, VII, 145
oil and gas sands of, porosity, VIII, 739
oil reserve in Teapot Dome, VIII, 101
oil reserves, VI, 44
oil shales, IV, 195
oil strikes in Hanna Basin and Red Desert, VII, 575
oil-bearing horizons, V, 186
oil-field waters, IX, 235
oil-field waters, bibliography, footnotes, IX, 235–46
preliminary report on water conditions in the first Wall Creek sand, Salt Creek oil field, VIII, 492
Rawlins-Lost Soldier district, VII, 131
red beds, X, 304
review of publication on Lance Creek oil field, VI, 385
southeastern, fauna of the so-called Dakota formation of north-central Colorado, and its equivalent in, review, VII, 306
structure, IV, 253
structure and accumulation, V, 49, 408
thrust faults, X, 106
Triassic in, VIII, 515
Upper Cretaceous, VII, 138, 488
Upton-Thornton oil field, VI, 385
water analyses in oil production and some analyses from Poison Spider, IX, 927
Wertz dome, faults, X, 120
Wyoming and Montana, Chugwater formation, X, 304
Wyoming and South Dakota, stratigraphy, VII, 510
Wyoming oil fields, faulting in, VII, 95
sandstones, productive, VII, 491

Y

Yale oil field, V, 120, 131, 137
Yates Center oil field, V, 64
Yegua formation, I, 35, 73; II, 34; III, 313; V, 383, 625
Louisiana, X, 237, 281
Yellville limestone, V, 147
Yellowstone National Park, V, 188
Yeso formation, V, 548, 605, 608; VI, 224
Youngstown oil pool, V, 290
Youngstown sand, V, 404
Yukon oil field, Oklahoma, II, 56
Yumuri limestone, II, 143

Z

Zacamixtle oil pool, V, 85, 506; VI, 111
Zapata County oil field, V, 626
Zechstein, Germany, IX, 418, 424
Zechstein salt, Germany, IX, 418, 1247, 1249
Zorritas oil field, V, 588, 592, 599

[PRINTED IN U.S.A.]